

007

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

FORM 3

## APPLICATION FOR PERMIT TO DRILL

|                                                                                                                                                                                            |  |                                                                           |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------|-----------------------------|
| 1A. TYPE OF WORK: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN                                                               |  | 5. MINERAL LEASE NO:<br><b>ML-22049</b>                                   | 6. SURFACE:<br><b>STATE</b> |
| B. TYPE OF WELL <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE                     |  | 7. IF INDIAN, ALLOTTEE OR TRIBE NAME<br><b>N/A</b>                        |                             |
| 2. NAME OF OPERATOR:<br><b>SHENANDOAH ENERGY, INC.</b>                                                                                                                                     |  | 8. UNIT OR CA AGREEMENT NAME:<br><b>N/A</b>                               |                             |
| 3. ADDRESS OF OPERATOR:<br><b>11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078</b>                                                                                                         |  | 9. WELL NAME and NUMBER:<br><b>OU GB 15W-16-8-22</b>                      |                             |
| 4. LOCATION OF WELL (FOOTAGES) <b>4441853 Y</b><br>AT SURFACE: <b>632901 X</b><br>AT PROPOSED PRODUCING ZONE: <b>811' FSL, 1700' FEL - 109.44042</b><br><b>SWSE, SECTION 16, T8S, R22E</b> |  | 10. FIELD AND POOL, OR WILDCAT:<br><b>GLEN BENCH</b>                      |                             |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE:<br><b>7+/- MILES WEST OF REDWASH, UTAH</b>                                                                           |  | 11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:<br><b>SWSE 16 8S 22E</b> |                             |
| 15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE(FEET)<br><b>811 +/-</b>                                                                                                                     |  | 12. COUNTY:<br><b>UINTAH</b>                                              | 13. STATE:<br><b>UTAH</b>   |
| 16. NUMBER OF ACRES IN LEASE:<br><b>640</b>                                                                                                                                                |  | 17. NUMBER OF ACRES ASSIGNED TO THIS WELL:<br><b>40</b>                   |                             |
| 18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET)<br><b>1500' +/-</b>                                                                                |  | 20. BOND DESCRIPTION:<br><b>U-0969</b>                                    |                             |
| 21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.):<br><b>4867' KB</b>                                                                                                                         |  | 22. APPROXIMATE DATE WORK WILL START:<br><b>ASAP</b>                      |                             |
|                                                                                                                                                                                            |  | 23. ESTIMATED DURATION:<br><b>10 DAYS</b>                                 |                             |

## 24 PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | CASING SIZE, GRADE, AND WEIGHT PER FOOT | SETTING DEPTH | CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT |
|--------------|-----------------------------------------|---------------|-------------------------------------------------|
| 12-1/4"      | 9-5/8" K-55 36lb/ft (new)               | 450'          | Premium Plus 257 15.6ppg                        |
| 7-7/8"       | 4-1/5" J-55 11.6lb/ft (new)             | 7780'         | Lead Extended Lite Hi-fill 11.0 ppg             |
|              |                                         |               | Tail Extended Class G 14.35 ppg                 |
|              |                                         |               |                                                 |
|              |                                         |               |                                                 |
|              |                                         |               |                                                 |
|              |                                         |               |                                                 |

25

## ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERATION GENERAL RULES:

- |                                                                                         |                                                                                           |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <input type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER     | <input type="checkbox"/> COMPLETE DRILLING PLAN                                           |
| <input type="checkbox"/> EVIDNECE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OV |

|                                       |                                      |
|---------------------------------------|--------------------------------------|
| NAME (PLEASE PRINT) <u>John Busch</u> | TITLE <u>Construction Supervisor</u> |
| SIGNATURE <u>John Busch</u>           | DATE <u>14-Jun-02</u>                |

(This space for State use only)

API NUMBER ASSIGNED: 43-047-34622 APPROVAL: \_\_\_\_\_

(11/2001)

(See Instruction on Reverse Side)

CONFIDENTIAL

RECEIVED

JUN 17 2002

DIVISION OF  
OIL, GAS AND MINING

## DRILLING PROGRAM

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

### 1. Formation Tops

The estimated tops of important geologic markers are as follows:

| <u>Formation</u> | <u>Depth</u> | <u>Prod. Phase Anticipated</u> |
|------------------|--------------|--------------------------------|
| Uinta            | Surface      |                                |
| Green River      | 2444'        |                                |
| Mahogany Ledge   | 3339'        |                                |
| Wasatch          | 5814'        |                                |
| TD (Wasatch)     | 7525'        |                                |

### 2. Anticipated Depths of Oil Gas Water and Other Mineral Bearing Zones

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

| <u>Substance</u> | <u>Formation</u> | <u>Depth</u> |
|------------------|------------------|--------------|
| Oil/Gas          | Wasatch          | 7525'        |

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the State of Utah form OGC-8-X is acceptable. If no flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right #36125 or where possible a fresh water line (poly pipe) will be laid in the access road to each location to supply fresh water for drilling purposes.

Shenandoah Energy Inc.  
OU GB 15W-16-8-22

### DRILLING PROGRAM

3. Surface Ownership

The well pad and access road are located on lands owned by the State of Utah.

4. Operator's Specification for Pressure Control Equipment:

- A. 3,000 psi W.P. Double Gate BOP or Single Gate BOP (schematic attached)
- B. Functional test daily
- C. All casing strings shall be pressure tested (0.2 psi/foot or 1500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield pressure of the casing.
- D. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing whichever is less. Tests shall be done at the time of installation, prior to drilling out and weekly. All tests shall be for a period of 15 minutes

5. Casing Program

|            | <u>Depth</u> | <u>Hole Size</u> | <u>Csg Size</u> | <u>Type</u> | <u>Weight</u>   |
|------------|--------------|------------------|-----------------|-------------|-----------------|
| Surface    | 450'         | 12-1/4"          | 9-5/8"          | K-55        | 36lb/ft (new)   |
| Production | 7780'        | 7-7/8"           | 4-1/2"          | J-55        | 11.6lb/ft (new) |

6. Auxiliary Equipment

- A. Kelly Cock – yes
- B. Float at the bit – no
- C. Monitoring equipment on the mud system – visually
- D. Full opening safety valve on the rig floor – yes
- E. Rotating Head – yes
- F. The blooie line shall be at least 6" in diameter and extend at least 100' from the well bore into the reserve/blooie pit.

**REVISED**  
Surface Owner  
8-29-02

## DRILLING PROGRAM

- H. Compressor shall be tied directly to the blooie line through a manifold.
  - I. A mister with a continuous stream of water shall be installed near the end of the blooie lines for dust suppression.
7. Surface hole will be drilled with air, air/mist, foam, or mud depending on hole conditions. Drilling below surface casing will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash and polymers. No chromates will be used. It is not intended to use oil in the mud, however, in the event it is used, oil concentration will be less than 4% by volume. Maximum anticipated mud weight is 9.5 ppg.

No minimum quantity of weight material will be required to be kept on location.

PVT/Flow Show will be used from base of surface casing to TD.

Gas detector will be used from surface casing depth to TD.

### 8. Testing, logging and coring program

- A. Cores – none anticipated
- B. DST – none anticipated

Logging – Mud logging – 4500 to TD  
GR-SP-Induction  
Neutron Density  
MRI

- C. Formation and Completion Interval: Wasatch interval, final determination of completion will be made by analysis of logs.  
Stimulation – Stimulation will be designed for the particular area of interest as encountered.

## DRILLING PROGRAM

### 9. Cementing Program

| <u>Casing</u> | <u>Volume</u>               | <u>Type &amp; Additives</u>                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Surface       | 257 sx                      | Premium Plus single slurry mixed to 15.6 ppg, yield = 1.18 cf/sx. Fill to surface with 160 cf (257 sx) calculated. Tail plug used. Allowed to set under pressure                                                                                                                                                                                                                                                                               |
| Production    | 785 sx* Lead<br>90 sx* Tail | Lead/Tail oilfield type cement circulated in place .<br>Tail slurry: Extended Class "G" + gilsonite and additives as required, mixed to 14.35 ppg, yield = 1.25 cf/sx. Fill to 6355' ( $\pm 300'$ above top of Lower Wasatch).<br>Cement Characteristics:<br>Lead slurry: Extended, Lite, Hi-fill + extender and additives as required, mixed to 11.0 ppg, yield = 3.81 cf/sx. Fill to surface. Tail plug used. Allowed to set under pressure. |

\*Final cement volumes to be calculated from caliper log with an attempt to be made to circulate cement to the surface. A bond log will be run across the zone of interest and across zones as required by the authorized officer to insure protection of natural resources.

### 10. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 3010.0 psi. Maximum anticipated bottom hole temperature is 140° F.

**Lessee's or Operator's Representative:**

John Busch  
Red Wash Operations Rep.  
Shenandoah Energy Inc.  
11002 East 17500 South  
Vernal, Utah 84078  
(435) 781-4341

**Certification:**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil & Gas Orders, the approved plan of operations, and any applicable Notice to Lessees.

Shenandoah Energy Inc. will be fully responsible for the actions of their subcontractors.

A complete copy of the approved Application for Permit to Drill will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Shenandoah Energy Inc. its' contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

**June 14, 2002**

John Busch

John Busch  
Red Wash Operations Representative

Date

# SHENANDOAH ENERGY, INC.

**OU GB #15W-16-8-22**

LOCATED IN UINTAH COUNTY, UTAH

SECTION 16, T8S, R22E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHERLY



- Since 1964 -

**U**  
**E**  
**L**  
**S** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

**LOCATION PHOTOS**

**6**  
MONTH

**6**  
DAY

**02**  
YEAR

**PHOTO**

TAKEN BY: K.S.

DRAWN BY: P.M.

REVISED: 00-00-00

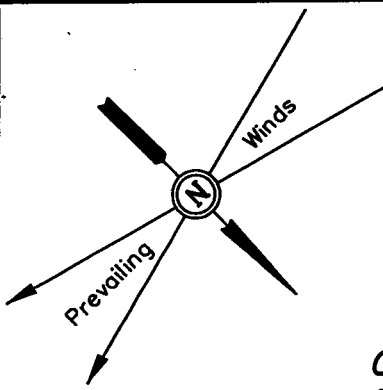


# SHENANDOAH ENERGY, INC.

FIGURE #1

## LOCATION LAYOUT FOR

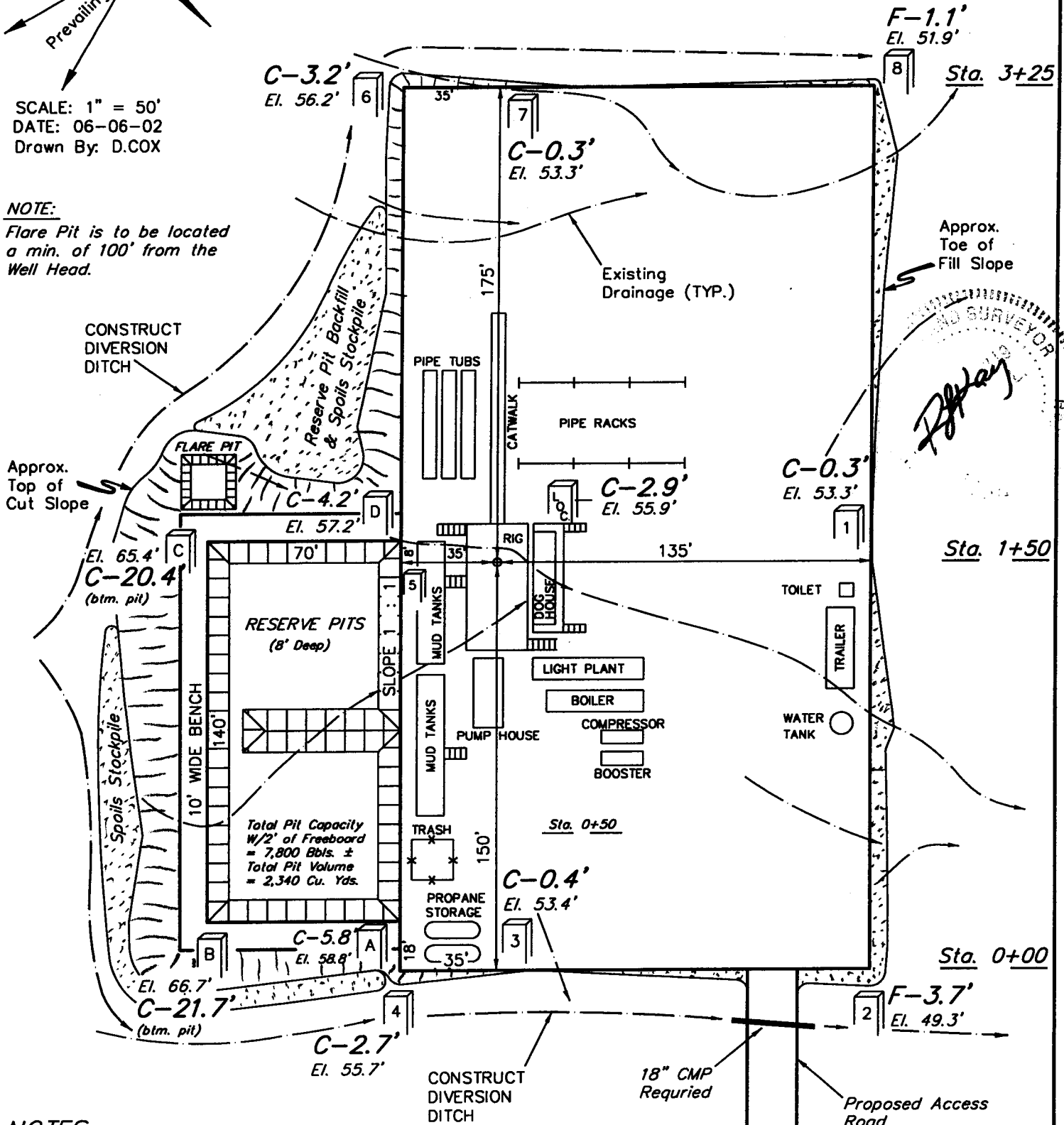
OU GB #15W-16-8-22  
SECTION 16, T8S, R22E, S.L.B.&M.  
1700' FEL 811' FSL



SCALE: 1" = 50'  
DATE: 06-06-02  
Drawn By: D.COX

### NOTE:

Flare Pit is to be located  
a min. of 100' from the  
Well Head.



### NOTES:

Elev. Ungraded Ground At Loc. Stake = 4855.9'  
FINISHED GRADE ELEV. AT LOC. STAKE = 4853.0'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017



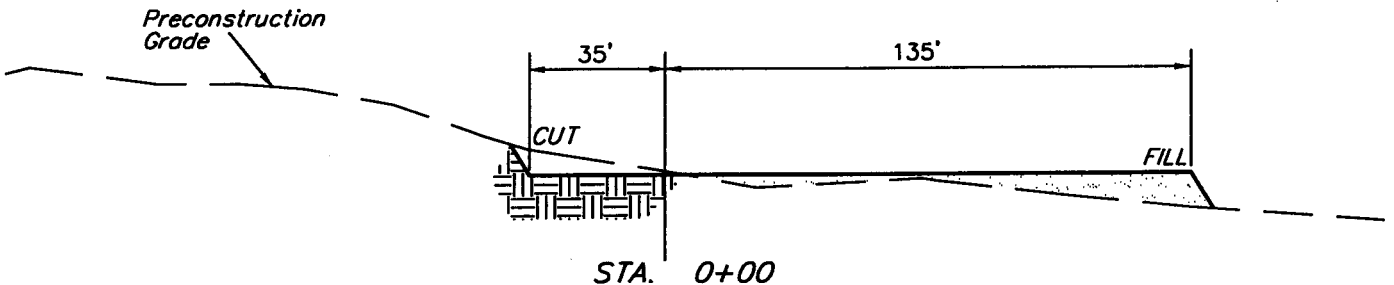
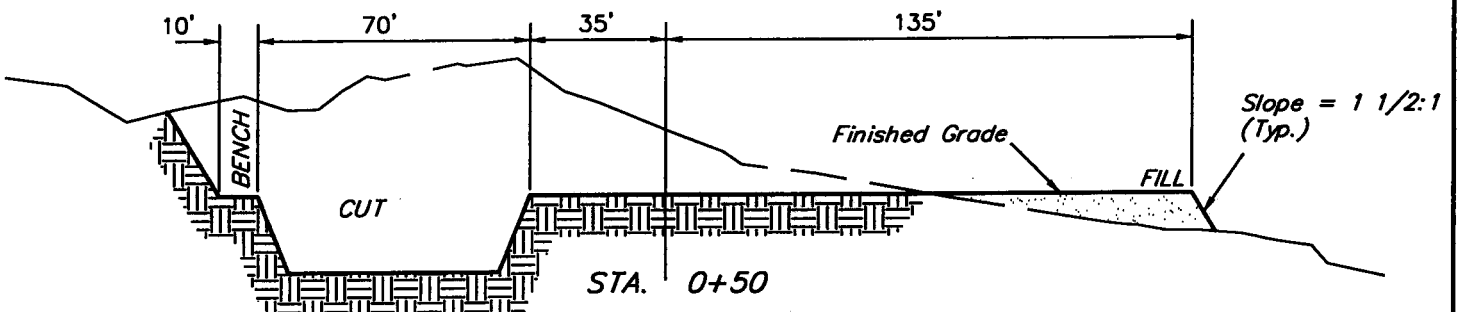
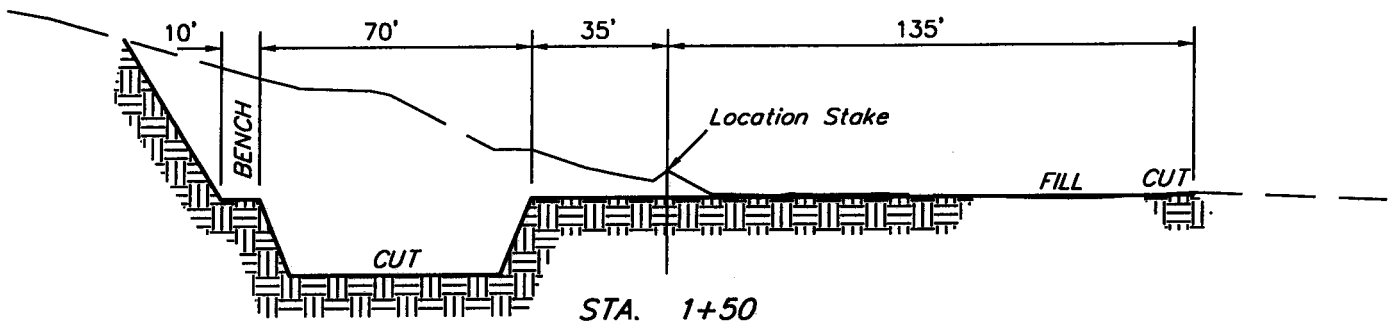
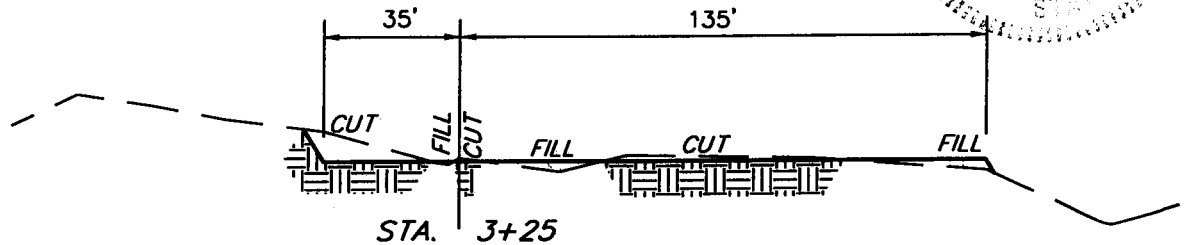
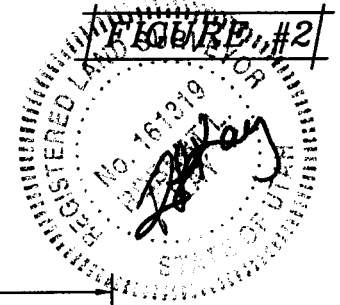
# SHENANDOAH ENERGY, INC.

## TYPICAL CROSS SECTIONS FOR

OU GB #15W-16-8-22  
SECTION 16, T8S, R22E, S.L.B.&M.  
1700' FEL 811' FSL

1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 06-06-02  
Drawn By: D.COX



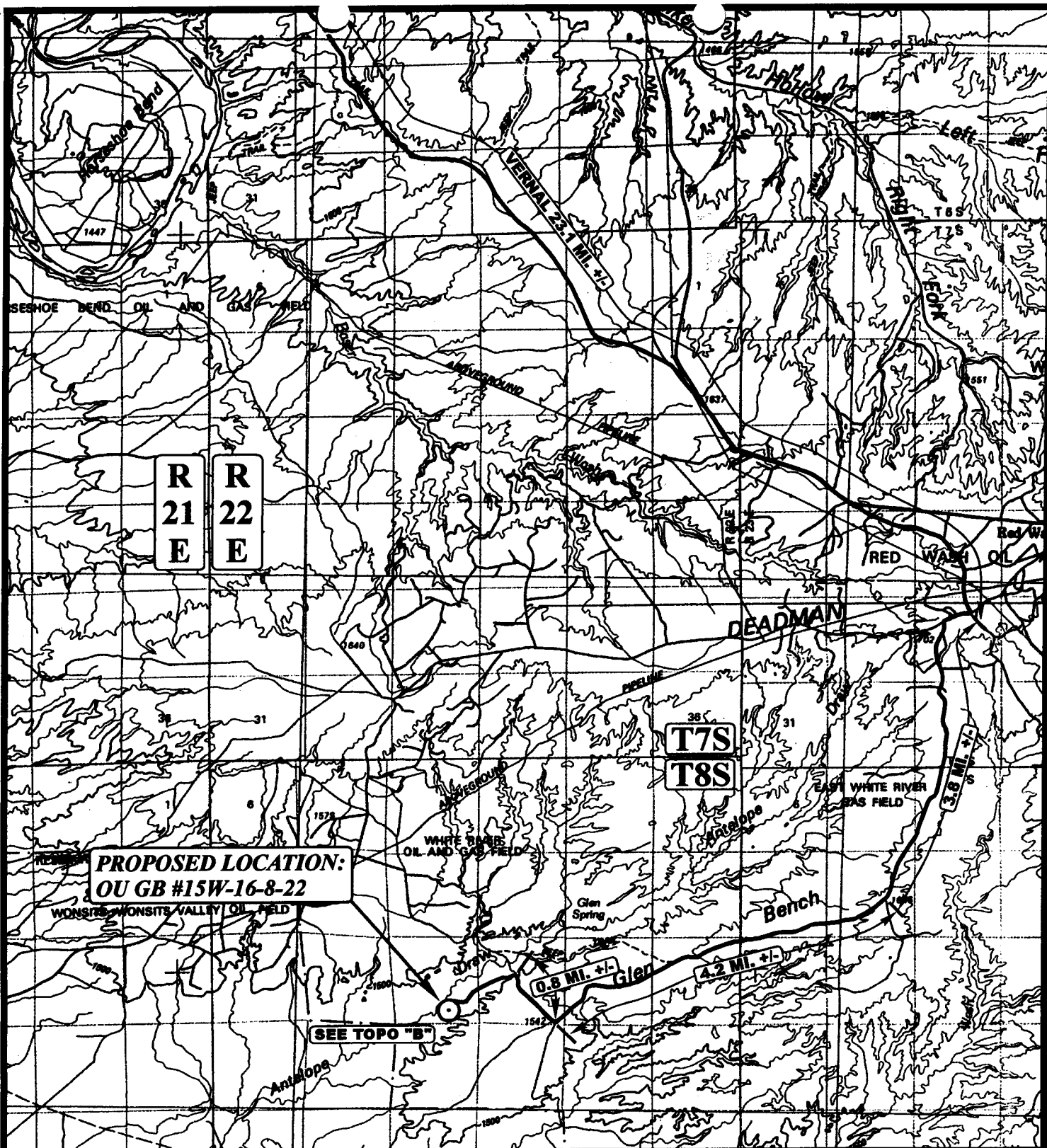
### APPROXIMATE YARDAGES

CUT  
TOTAL CUT = 11,890 CU.YDS.  
FILL = 1,130 CU.YDS.

EXCESS MATERIAL AFTER  
5% COMPACTION = 10,700 Cu. Yds.  
Pit Backfill (1/2 Pit Vol.) = 1,170 Cu. Yds.

EXCESS UNBALANCE = 9,530 Cu. Yds.  
(After Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017



# **LEGEND:**

○ PROPOSED LOCATION

**SHENANDOAH ENERGY, INC.**

**OU GB #15W-16-8-22**

**SECTION 16, T8S, R22E, S.L.B.&M.**

**811' FSL 1700' FEL**



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



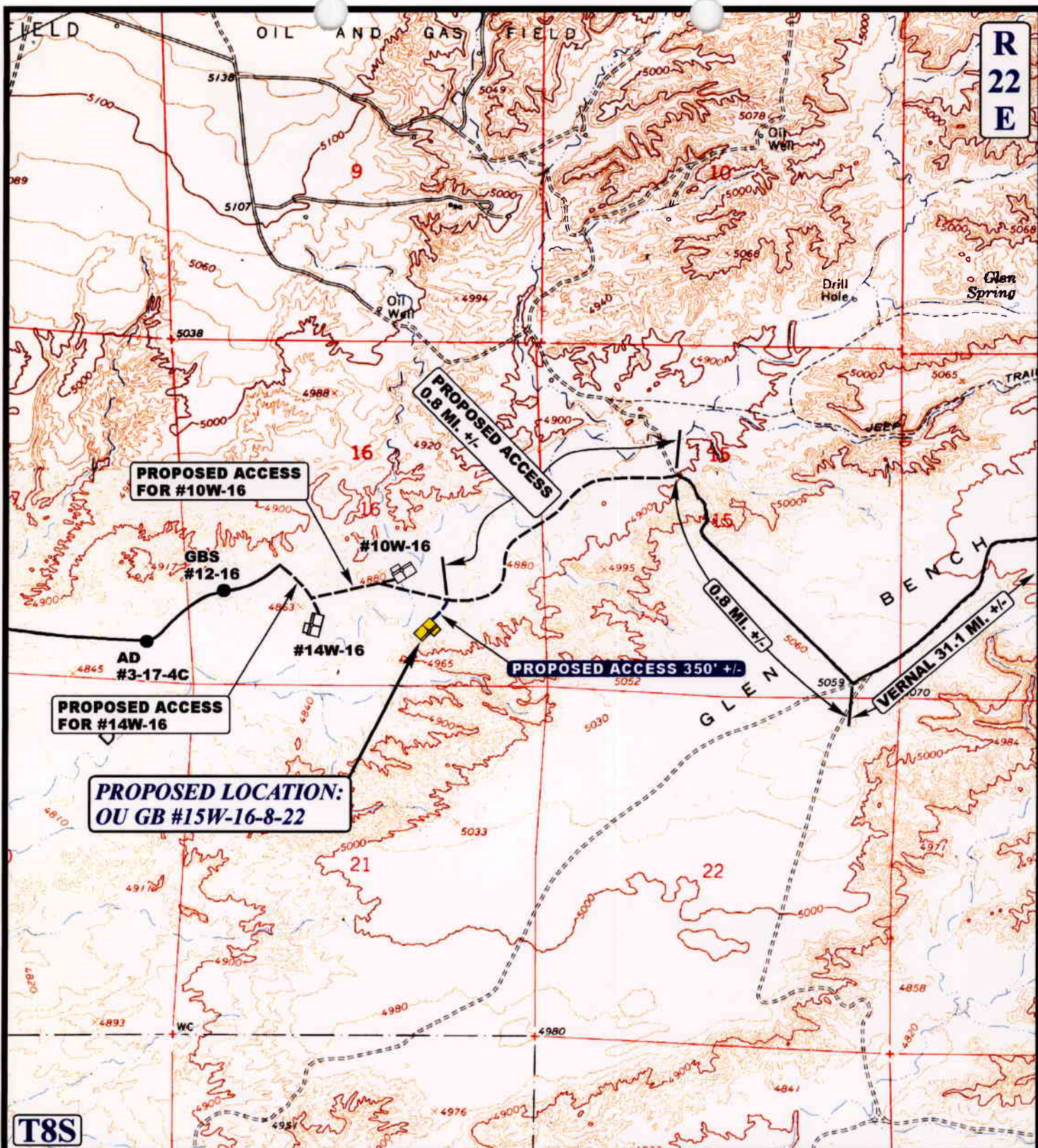
**TOPOGRAPHIC**  
**MAP**

**6 6 02**  
MONTH DAY YEAR

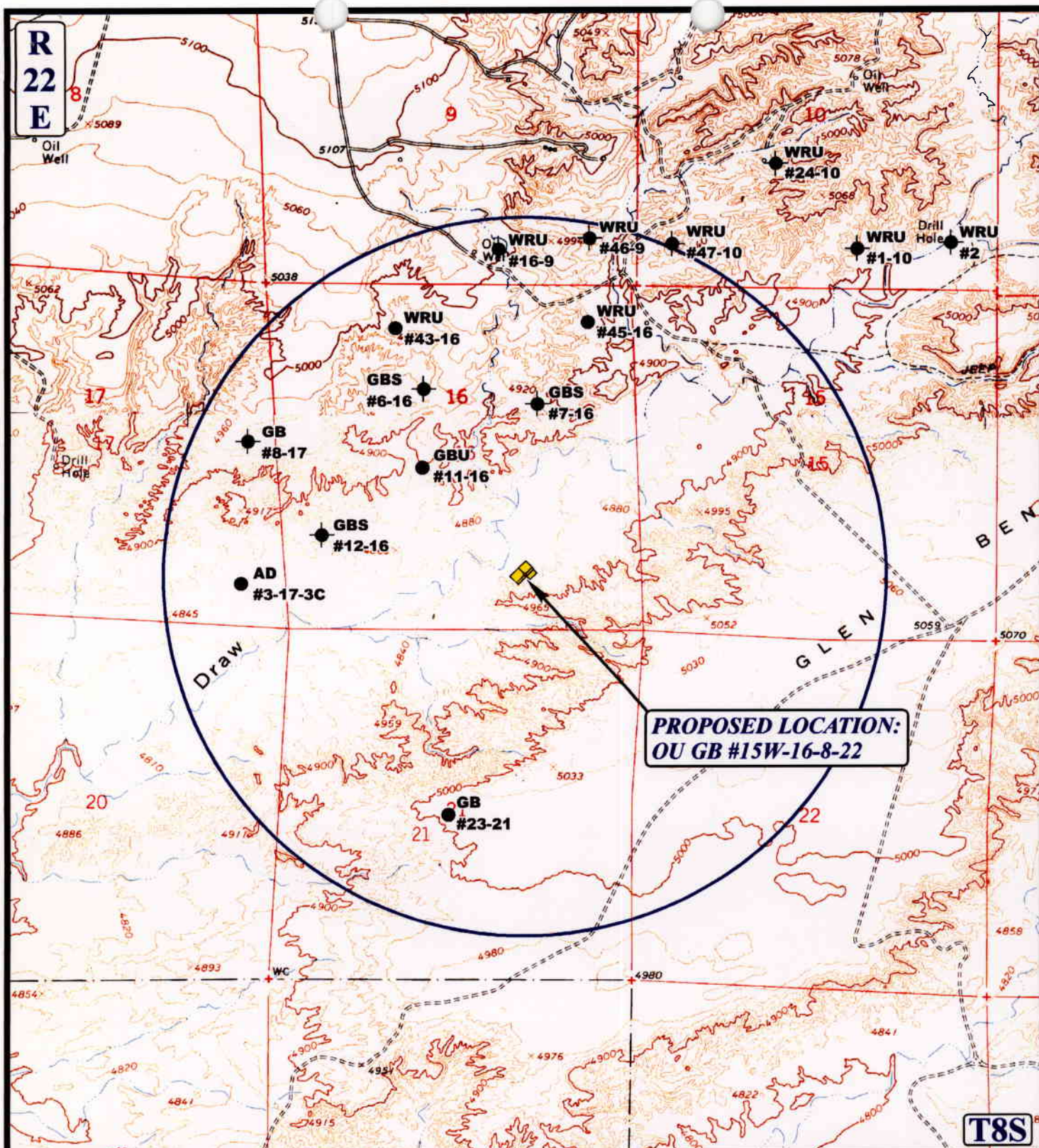
**SCALE: 1:100,000 DRAWN BY: P.M. REVISED: 00-00-00**











# LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

SHENANDOAH ENERGY, INC.

OU GB #15W-16-8-22

SECTION 16, T8S, R22E, S.L.B.&M.

811' FSL 1700' FEL

U  
E  
L  
S

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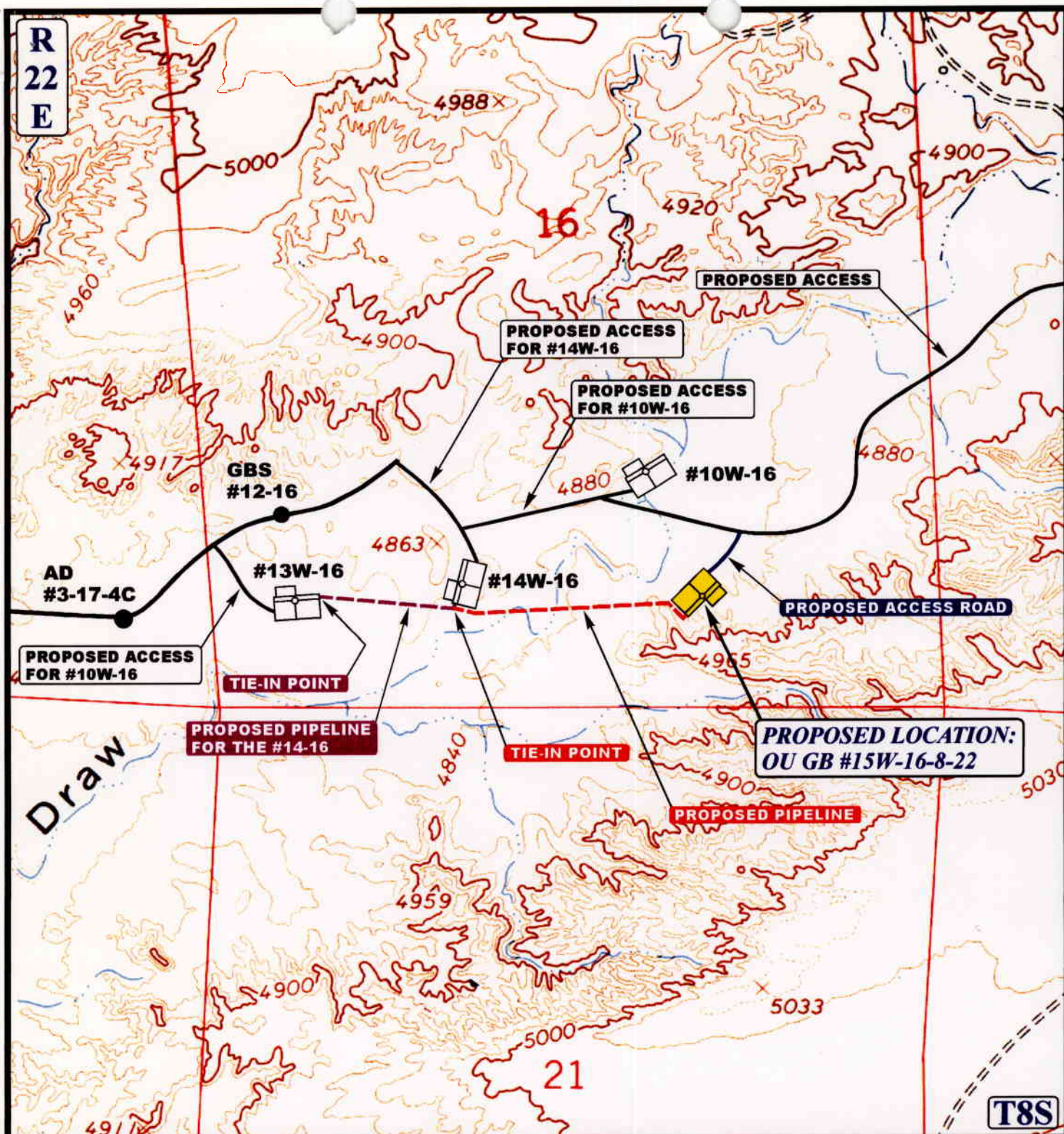
TOPOGRAPHIC  
MAP

6 6 02  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: P.M. REVISED: 00-00-00

C  
TOPO





# **LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE

**SHENANDOAH ENERGY, INC.**

**OU GB #15W-16-8-22**

**SECTION 16, T8S, R22E, S.L.B.&M.**

**811' FSL 1700' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC  
MAP**

**6 6 02**  
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: P.M. REVISED: 00-00-00



WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 06/17/2002

API NO. ASSIGNED: 43-047-34622

WELL NAME: OU GB 15W-16-8-22  
OPERATOR: SHENANDOAH ENERGY INC ( N4235 )  
CONTACT: JOHN BUSCH

PHONE NUMBER: 435-781-4341

PROPOSED LOCATION:  
SWSE 16 080S 220E  
SURFACE: 0811 FSL 1700 FEL  
BOTTOM: 0811 FSL 1700 FEL  
UINTAH  
KENNEDY WASH ( 618 )

LEASE TYPE: 3 - State  
LEASE NUMBER: ML-22049  
SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSTC

| INSPECT LOCATN BY: / / |          |          |
|------------------------|----------|----------|
| Tech Review            | Initials | Date     |
| Engineering            | Dkd      | 9/3/2002 |
| Geology                |          |          |
| Surface                |          |          |

LATITUDE: 40.11839  
LONGITUDE: 109.44042

RECEIVED AND/OR REVIEWED:

- ☒ Plat
- ☐ Bond: Fed[] Ind[] Sta[3] Fee[]  
(No. U-0969 )
- ☒ Potash (Y/N)
- ☒ Oil Shale 190-5 (B) or 190-3 or 190-13
- ☒ Water Permit  
(No. 36125 )
- ☒ RDCC Review (Y/N)  
(Date: )
- ☒ NA Fee Surf Agreement (Y/N)

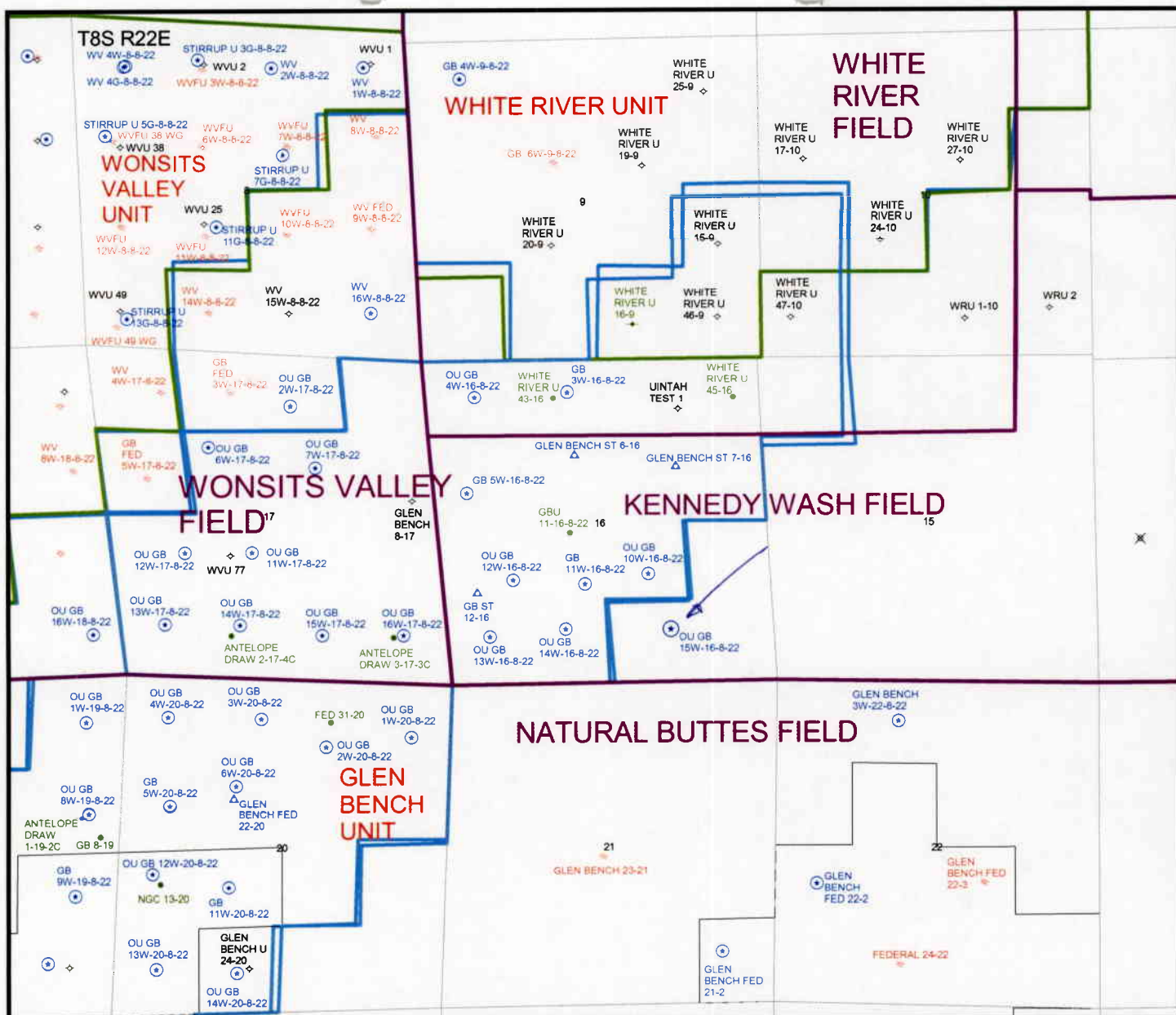
LOCATION AND SITING:

- ☐ R649-2-3.
- Unit
- ☐ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- ☒ R649-3-3. Exception
- ☐ Drilling Unit  
Board Cause No:   
Eff Date:   
Siting:
- ☐ R649-3-11. Directional Drill

COMMENTS: Need Presite (07-09-02)

STIPULATIONS: 1- STATEMENT OF BASIS



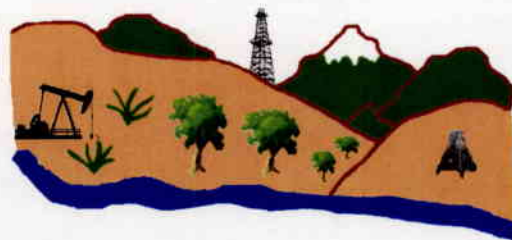


OPERATOR NAME: Shenandoah Energy (N4235)

Sec. 16 T8S R22E

FIELD: KENNEDY WASH (618)

COUNTY: UTAH SPACING: GEN ST/R649-3-2



#### Field Status

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED
- Township.shp
- Sections

#### Well Status

- Gas Injection
- Gas Storage
- Location Abandoned
- Location
- Plugged
- Producing Gas
- Producing Oil
- Shut-In Gas
- Shut-In Oil
- Temporarily Abandoned
- Test Well
- Water Injection
- Water Supply
- Water Disposal

#### Unit Status

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

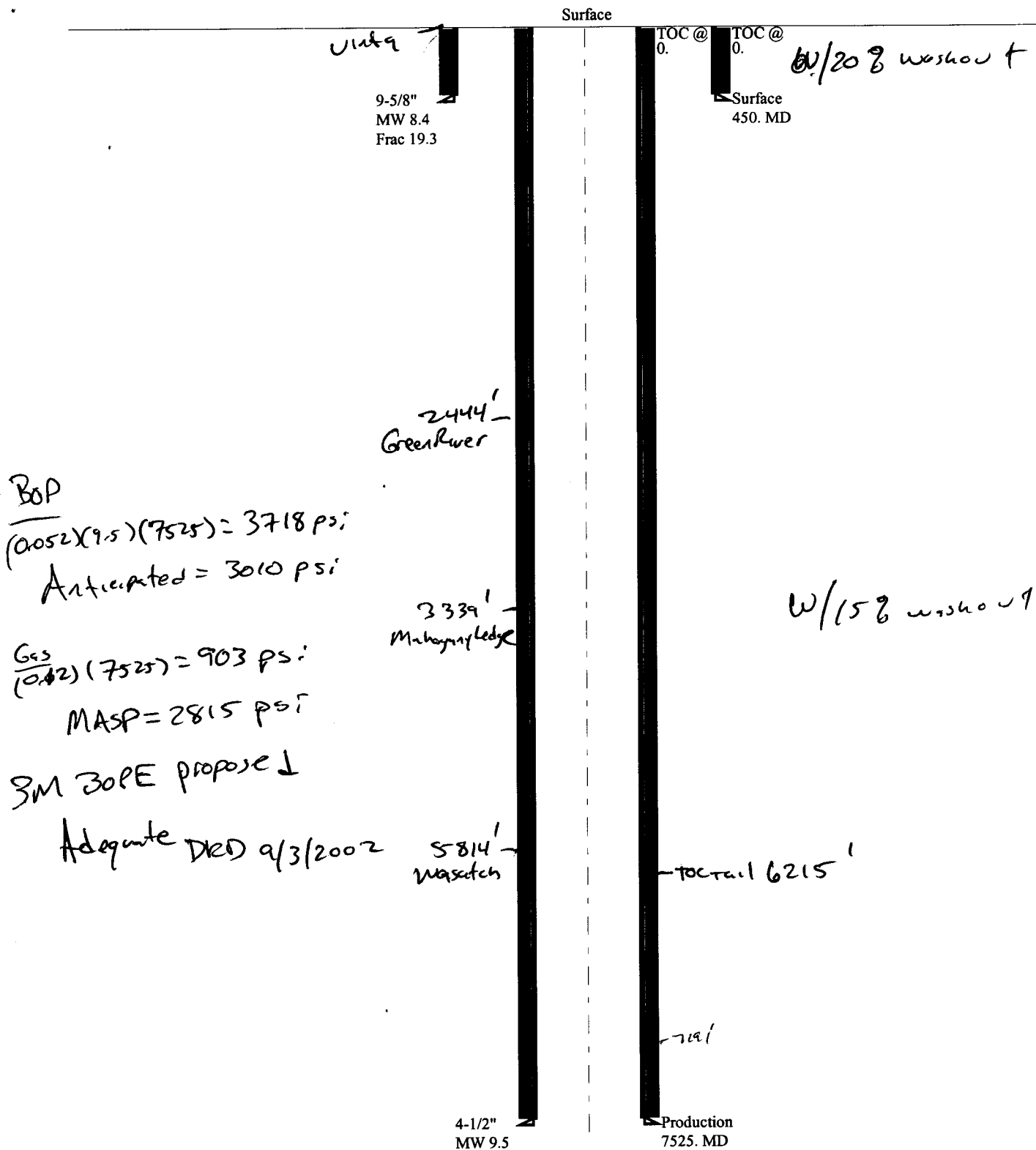
Utah Oil Gas and Mining



Prepared By: D. Mason  
Date: 19-June-2002



Casing Schematic



|                                                      |                                 |
|------------------------------------------------------|---------------------------------|
| Well name: <b>09-02 Shenandoah OU GB 15W-16-8-22</b> |                                 |
| Operator: <b>Shenandoah Energy Inc.</b>              | Project ID: <b>43-047-34622</b> |
| String type: <b>Surface</b>                          |                                 |
| Location: <b>Uintah County</b>                       |                                 |

**Design parameters:**

**Collapse**

Mud weight: 8.400 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 71 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 450 ft

Cement top:

Surface

**Burst**

Max anticipated surface pressure: 0 psi  
Internal gradient: 0.494 psi/ft  
Calculated BHP 222 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on air weight.  
Neutral point: 394 ft

Non-directional string.

**Re subsequent strings:**

Next setting depth: 7,525 ft  
Next mud weight: 9.500 ppg  
Next setting BHP: 3,714 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 450 ft  
Injection pressure 450 psi

| Run Seq | Segment Length (ft) | Size (in) | Nominal Weight (lbs/ft) | Grade | End Finish | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in) | Internal Capacity (ft³) |
|---------|---------------------|-----------|-------------------------|-------|------------|----------------------|---------------------|---------------------|-------------------------|
| 1       | 450                 | 9.625     | 36.00                   | K-55  | ST&C       | 450                  | 450                 | 8.765               | 32                      |

| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor | Tension Load (Kips) | Tension Strength (Kips) | Tension Design Factor |
|---------|---------------------|-------------------------|------------------------|------------------|----------------------|---------------------|---------------------|-------------------------|-----------------------|
| 1       | 196                 | 2020                    | 10.29                  | 222              | 3520                 | 15.85               | 16                  | 423                     | 26.11 J               |

↓  
 BHP ≈ 3700 psi  
 MSP ≈ 2800 psi

Prepared by: Dustin K. Doucet  
Utah Dept. of Natural Resources

Phone: 801-538-5281  
FAX: 801-359-3940

Date: September 3, 2002  
Salt Lake City, Utah

**ENGINEERING STIPULATIONS:**

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

|              |                                           |                                    |
|--------------|-------------------------------------------|------------------------------------|
| Well name:   | <b>09-02 Shenandoah OU GB 15W-16-8-22</b> |                                    |
| Operator:    | <b>Shenandoah Energy Inc.</b>             |                                    |
| String type: | <b>Production</b>                         | Project ID:<br><b>43-047-34622</b> |
| Location:    | <b>Uintah County</b>                      |                                    |

**Design parameters:**
**Collapse**

Mud weight: 9.500 ppg  
Design is based on evacuated pipe,

**Minimum design factors:**
**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 152 °F  
Temperature gradient: 1.15 °F/100ft  
Minimum section length: 1,500 ft

Cement top:

**Surface**

**Burst**

Max anticipated surface pressure: 0 psi  
Internal gradient: 0.494 psi/ft  
Calculated BHP 3,714 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Non-directional string.

Tension is based on air weight.  
Neutral point: 6,456 ft

| Run Seq | Segment Length (ft) | Size (in) | Nominal Weight (lbs/ft) | Grade | End Finish | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in) | Internal Capacity (ft³) |
|---------|---------------------|-----------|-------------------------|-------|------------|----------------------|---------------------|---------------------|-------------------------|
| 1       | 7525                | 4.5       | 11.60                   | J-55  | LT&C       | 7525                 | 7525                | 3.875               | 174.4                   |

| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor | Tension Load (Kips) | Tension Strength (Kips) | Tension Design Factor |
|---------|---------------------|-------------------------|------------------------|------------------|----------------------|---------------------|---------------------|-------------------------|-----------------------|
| 1       | 3714                | 4960                    | 1.34                   | 3714             | 5350                 | 1.44                | 87                  | 162                     | 1.86 J                |

Prepared by: Dustin K. Doucet  
Utah Dept. of Natural Resources

Phone: 801-538-5281  
FAX: 801-359-3940

Date: September 3, 2002  
Salt Lake City, Utah

**ENGINEERING STIPULATIONS:**

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

**DIVISION OF OIL, GAS AND MINING  
APPLICATION FOR PERMIT TO DRILL  
STATEMENT OF BASIS**

**Operator Name:** SHENANDOAH ENERGY, INC.  
**Well Name & Number:** OU GB 15W-16-8-22  
**API Number:** 43-047-34622  
**Location:** 1/4, 1/4 S SSE Sec. 16 T. 8S R. 22E

Shenandoah proposes to set 450' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at 3000 feet. A search of Division of Water Rights records shows 1 water well within a 10,000 foot radius of the center of section 16. This is a shallow well which is approximately 1 ½ miles to the north. This well should not be affected by the proposed well. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing program should adequately protect any underground sources of useable water.

**Reviewer:** Brad Hill  
**Date:** 07/11/2002

**Surface:**

The pre-drill investigation of the surface was performed on 7/09/2002. Surface and minerals are owned by State of Utah. Ed Bonner with SITLA and Miles Hanberg with DWR were both invited to this meeting on 6/25/2002. Miles Hanberg and Floyd Bartlett with DWR were present. SITLA did not have a representative present. Neither of the DWR representatives had any concerns regarding the construction of this location or the drilling of this well. This site is very sandy and within 300' of Antelope Draw which has running water after storms and during the Spring runoff as snow is melting. For these reasons a 12 mil liner will be required for the reserve pit. Shallow drainages crossing site will be re-routed through diversion ditches both to the east and west of the location.

**Reviewer:** David W. Hackford  
**Date:** 7/10/2002

**Conditions of Approval/Application for Permit to Drill:**

1. A synthetic liner with a minimum thickness of 12 mils shall be properly installed and maintained in the reserve pit.

**ON-SITE PREDRILL EVALUATION**  
**Division of Oil, Gas and Mining**

**OPERATOR:** SHENANDOAH ENERGY, INC.  
**WELL NAME & NUMBER:** OU GB 16W-16-8-22  
**API NUMBER:** 43-047-34622  
**LEASE:** ML-22049 **FIELD/UNIT:** KENNEDY WASH  
**LOCATION:** 1/4, 1/4 SW/SE SEC: 16 TWP: 8S RNG: 22E  
1700' F E L 811' F S L  
**LEGAL WELL SITING:** Statewide 400 foot window in center of 40  
acre tract and no closer than 920 feet from  
another well.  
**GPS COORD (UTM):** 12632817E 4442055N  
**SURFACE OWNER:** SITLA

**PARTICIPANTS:**

JAN NELSON, RAYLENE SEARLE (SHENANDOAH): MILES HANBERG, FLOYD  
BARTLETT (DWR): DAVID HACKFORD (DOGM).

**REGIONAL/LOCAL SETTING & TOPOGRAPHY:**

SITE IS IN AN AREA OF ROLLING HILLS AND SHALLOW DRAWS 500' SOUTH  
EAST OF ANTELOPE DRAW. THERE IS A ROCKY RIDGE RUNNING EAST TO  
WEST 400' SOUTH OF SITE. DRAINAGE IS TO THE NORTHWEST.

**SURFACE USE PLAN:**

CURRENT SURFACE USE: WILDLIFE AND LIVESTOCK GRAZING.  
HUNTING.

PROPOSED SURFACE DISTURBANCE: LOCATION WOULD BE 325' BY 240'  
AND ACCESS ROAD WOULD BE 350'.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: SEE  
ATTACHED MAP FROM GIS DATABASE

LOCATION OF PRODUCTION FACILITIES AND PIPELINES:  
ALL PRODUCTION FACILITIES WILL BE ON LOCATION AND  
CONSTRUCTED AFTER WELL IS DRILLED AND COMPLETED. PROPOSED  
PIPELINE WILL RUN DUE WEST FOR 0.3 MILES TO THE 14W-16-8-22.

SOURCE OF CONSTRUCTION MATERIAL: ALL CONSTRUCTION MATERIAL  
WILL BE BORROWED FROM SITE DURING CONSTRUCTION OF LOCATION.

ANCILLARY FACILITIES: NONE WILL BE REQUIRED.

**WASTE MANAGEMENT PLAN:**

DRILLED CUTTINGS WILL BE SETTLED INTO RESERVE PIT. LIQUIDS FROM PIT WILL BE ALLOWED TO EVAPORATE. FORMATION WATER WILL BE CONFINED TO STORAGE TANKS. SEWAGE FACILITIES, STORAGE AND DISPOSAL WILL BE HANDLED BY COMMERCIAL CONTRACTOR. TRASH WILL BE CONTAINED IN TRASH BASKETS AND HAULED TO AN APPROVED LAND FILL.

**ENVIRONMENTAL PARAMETERS:**

AFFECTED FLOODPLAINS AND/OR WETLANDS: NONE

FLORA/FAUNA: NATIVE GRASSES, TAMARISK, SAGE, PRICKLY PEAR, GREASEWOOD, RUSSIAN THISTLE: RODENTS, COYOTES, SONGBIRDS, RAPTORS, PRONGHORN, DEER. (LESS THAN 1% GROUND COVER).

SOIL TYPE AND CHARACTERISTICS: GRAY AND LIGHT RED SANDY CLAY.

EROSION/SEDIMENTATION/STABILITY: VERY LITTLE NATURAL EROSION. SEDIMENTATION AND STABILITY ARE NOT A PROBLEM AND LOCATION CONSTRUCTION SHOULDN'T CAUSE ANY INCREASE IN STABILITY OR EROSION PROBLEMS.

PALEONTOLOGICAL POTENTIAL: NONE OBSERVED.

**RESERVE PIT:**

CHARACTERISTICS: 140' BY 70' AND 8' DEEP.

LINER REQUIREMENTS (Site Ranking Form attached): A 12 MIL LINER WILL BE REQUIRED FOR RESERVE PIT.

**SURFACE RESTORATION/RECLAMATION PLAN:**

AS PER STATE OF UTAH.

**SURFACE AGREEMENT:** STATE LAND.

**CULTURAL RESOURCES/ARCHAEOLOGY:** SITE WAS INSPECTED BY MONTGOMERY ARCHAEOLOGICAL CONSULTANTS ON 6/15/02. A REPORT OF THIS INVESTIGATION WILL BE PLACED ON FILE.

**OTHER OBSERVATIONS/COMMENTS:**

THE PRE-DRILL INVESTIGATION TOOK PLACE ON A HOT, SUNNY DAY.

**ATTACHMENTS:**

PHOTOS OF SITE WILL BE PLACED ON FILE.

DAVID W. HACKFORD  
**DOGM REPRESENTATIVE**

07/09/2002-12:30 PM  
**DATE/TIME**



**Evaluation Ranking Criteria and Ranking Score  
For Reserve and On-site Pit Liner Requirements**

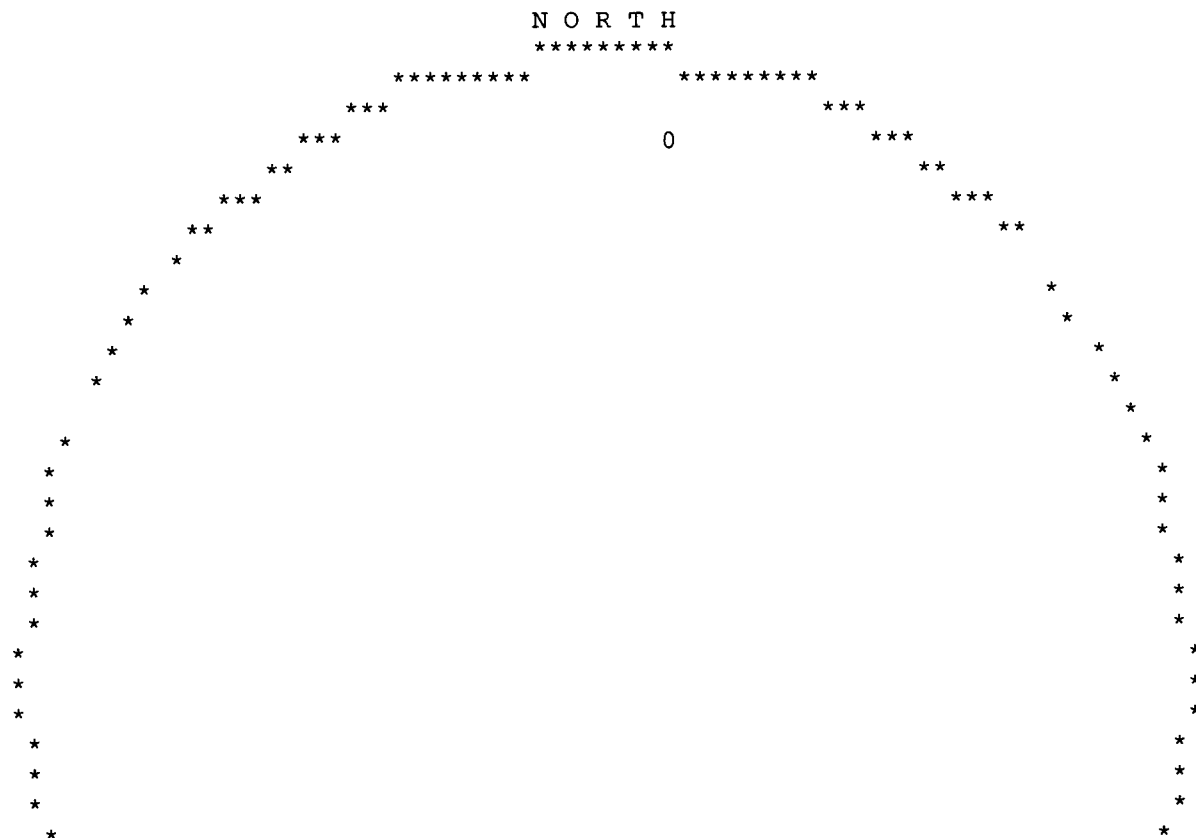
| <u>Site-Specific Factors</u>                               | <u>Ranking</u> | <u>Site Ranking</u> |
|------------------------------------------------------------|----------------|---------------------|
| <b>Distance to Groundwater (feet)</b>                      |                |                     |
| >200                                                       | 0              |                     |
| 100 to 200                                                 | 5              |                     |
| 75 to 100                                                  | 10             |                     |
| 25 to 75                                                   | 15             |                     |
| <25 or recharge area                                       | 20             | <u>5</u>            |
| <b>Distance to Surf. Water (feet)</b>                      |                |                     |
| >1000                                                      | 0              |                     |
| 300 to 1000                                                | 2              |                     |
| 200 to 300                                                 | 10             |                     |
| 100 to 200                                                 | 15             |                     |
| < 100                                                      | 20             | <u>0</u>            |
| <b>Distance to Nearest Municipal Well (feet)</b>           |                |                     |
| >5280                                                      | 0              |                     |
| 1320 to 5280                                               | 5              |                     |
| 500 to 1320                                                | 10             |                     |
| <500                                                       | 15             | <u>0</u>            |
| <b>Distance to Other Wells (feet)</b>                      |                |                     |
| >1320                                                      | 0              |                     |
| 300 to 1320                                                | 10             |                     |
| <300                                                       | 20             | <u>0</u>            |
| <b>Native Soil Type</b>                                    |                |                     |
| Low permeability                                           | 0              |                     |
| Mod. permeability                                          | 10             |                     |
| High permeability                                          | 20             | <u>20</u>           |
| <b>Fluid Type</b>                                          |                |                     |
| Air/mist                                                   | 0              |                     |
| Fresh Water                                                | 5              |                     |
| TDS >5000 and <10000                                       | 15             |                     |
| TDS >10000 or Oil Base                                     | 20             |                     |
| Mud Fluid containing high levels of hazardous constituents |                | <u>5</u>            |
| <b>Drill Cuttings</b>                                      |                |                     |
| Normal Rock                                                | 0              |                     |
| Salt or detrimental                                        | 10             | <u>0</u>            |
| <b>Annual Precipitation (inches)</b>                       |                |                     |
| <10                                                        | 0              |                     |
| 10 to 20                                                   | 5              |                     |
| >20                                                        | 10             | <u>0</u>            |
| <b>Affected Populations</b>                                |                |                     |
| <10                                                        | 0              |                     |
| 10 to 30                                                   | 6              |                     |
| 30 to 50                                                   | 8              |                     |
| >50                                                        | 10             | <u>0</u>            |
| <b>Presence of Nearby Utility</b>                          |                |                     |
| <b>Conduits</b>                                            |                |                     |
| Not Present                                                | 0              |                     |
| Unknown                                                    | 10             |                     |
| Present                                                    | 15             | <u>0</u>            |
| <b>Final Score</b>                                         |                | <u>30</u>           |

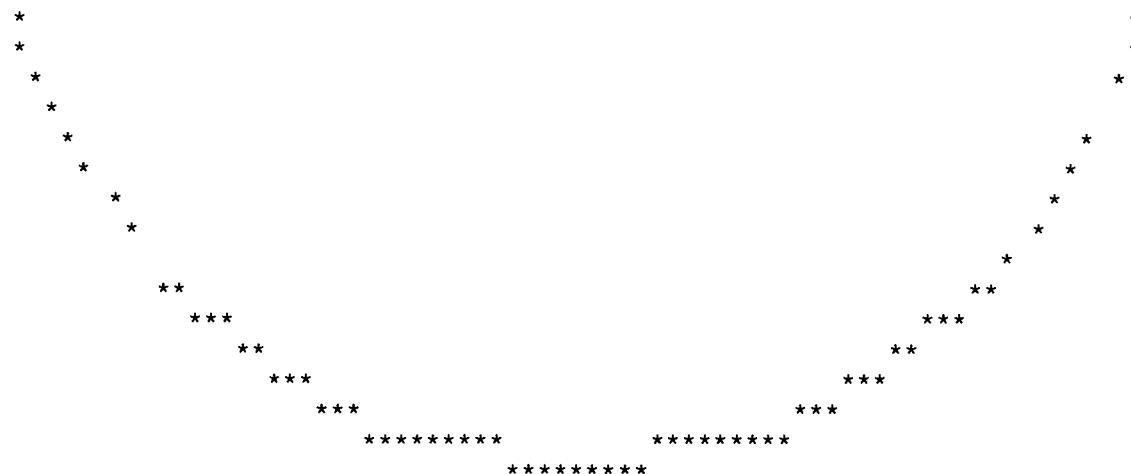


UTAH DIVISION OF WATER RIGHTS  
WATER RIGHT POINT OF DIVERSION PLOT CREATED THU, JUL 11, 2002, 8:52 AM  
PLOT SHOWS LOCATION OF 1 POINTS OF DIVERSION

PLOT OF AN AREA WITH A RADIUS OF 10000 FEET FROM A POINT  
FEET, FEET OF THE CT CORNER,  
SECTION 16 TOWNSHIP 8S RANGE 22E SL BASE AND MERIDIAN

PLOT SCALE IS APPROXIMATELY 1 INCH = 4000 FEET






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UTAH DIVISION OF WATER RIGHTS  
NWPLAT POINT OF DIVERSION LOCATION PROGRAM

---

| MAP<br>CHAR                | WATER<br>RIGHT | QUANTITY<br>CFS | AND/OR<br>AC-FT | SOURCE DESCRIPTION or WELL INFO<br>DIAMETER DEPTH YEAR LOG | POINT OF DIVERSION DESCRIPTION<br>NORTH EAST CNR SEC TWN RNG B& |
|----------------------------|----------------|-----------------|-----------------|------------------------------------------------------------|-----------------------------------------------------------------|
| 0                          | 49 287         | .1230           | .00             | Underground Water Well                                     | N 572 W 1575 SE 4 8S 22E S                                      |
| WATER USE(S): OTHER        |                |                 |                 |                                                            | PRIORITY DATE: 10/07/1                                          |
| Chandler & Associates Inc. |                |                 |                 | 1850 Beneficial Life Tower                                 | Salt Lake City                                                  |

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CONFIDENTIAL

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

FORM 3

**APPLICATION FOR PERMIT TO DRILL**

|                                                                                                                                                                                         |  |                                                                           |                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------|------------------------------|
| 1A. TYPE OF WORK: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN                                                            |  | 5. MINERAL LEASE NO:<br><b>ML-22049</b>                                   | 6. SURFACE:<br><b>N/A</b>    |
| B. TYPE OF WELL <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS OTHER _____ <input checked="" type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE |  | 7. IF INDIAN, ALLOTTEE OR TRIBE NAME<br><b>N/A</b>                        |                              |
| 2. NAME OF OPERATOR:<br><b>SHENANDOAH ENERGY, INC.</b>                                                                                                                                  |  | 8. UNIT OF CA AGREEMENT NAME:<br><b>N/A</b>                               |                              |
| 3. ADDRESS OF OPERATOR:<br><b>11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078</b>                                                                                                      |  | 9. WELL NAME and NUMBER:<br><b>OU GB 15W-16-8-22</b>                      |                              |
| 4. LOCATION OF WELL (FOOTAGES) <b>4441853 Y</b><br>AT SURFACE: <b>632901 X</b><br>AT PROPOSED PRODUCING ZONE: <b>811' FSL, 1700' FEL</b><br><b>SWSE, SECTION 16, T8S, R22E</b>          |  | 10. FIELD AND POOL, OR WILDCAT:<br><b>GLEN BENCH</b>                      |                              |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE:<br><b>7 +/- MILES WEST OF REDWASH, UTAH</b>                                                                       |  | 11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:<br><b>SWSE 16 8S 22E</b> | 12. COUNTY:<br><b>UINTAH</b> |
| 15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE(FEET)<br><b>811 +/-</b>                                                                                                                  |  | 13. STATE:<br><b>UTAH</b>                                                 |                              |
| 16. NUMBER OF ACRES IN LEASE:<br><b>640</b>                                                                                                                                             |  | 17. NUMBER OF ACRES ASSIGNED TO THIS WELL:<br><b>40</b>                   |                              |
| 18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET)<br><b>1500' +/-</b>                                                                             |  | 20. BOND DESCRIPTION:<br><b>U-0969</b>                                    |                              |
| 21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.):<br><b>4867' KB</b>                                                                                                                      |  | 22. APPROXIMATE DATE WORK WILL START:<br><b>ASAP</b>                      |                              |
|                                                                                                                                                                                         |  | 23. ESTIMATED DURATION:<br><b>10 DAYS</b>                                 |                              |

**PROPOSED CASING AND CEMENTING PROGRAM**

| SIZE OF HOLE | CASING SIZE, GRADE, AND WEIGHT PER FOOT | SETTING DEPTH | CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT |
|--------------|-----------------------------------------|---------------|-------------------------------------------------|
| 12-1/4"      | 9-5/8" K-55 36lb/ft (new)               | 450'          | Premium Plus 257 15.6 ppg                       |
| 7-7/8"       | 4-1/2" J-55 11.6lb/ft (new)             | 7525'         | Lead 701 Extended Lite Hi-fill 11.0 ppg         |
|              |                                         |               | Tail 353 Extended Class G 14.35 ppg             |
|              |                                         |               |                                                 |
|              |                                         |               |                                                 |
|              |                                         |               |                                                 |
|              |                                         |               |                                                 |
|              |                                         |               |                                                 |

**ATTACHMENTS**25  
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- ☐ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER  
☐ EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER  
☐ COMPLETE DRILLING PLAN  
☐ FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OV

NAME (PLEASE PRINT) John Busch TITLE Construction Supervisor  
SIGNATURE John Busch DATE 12-Jun-02

(This space for State use only)

API NUMBER ASSIGNED: 43-047-34622 APPROVAL: \_\_\_\_\_

(11/2001)

Approved by the  
Utah Division of  
Oil, Gas and Mining  
Date: 09-04-02  
By: Brady Giff

(See Instruction on Reverse Side)

**RECEIVED**

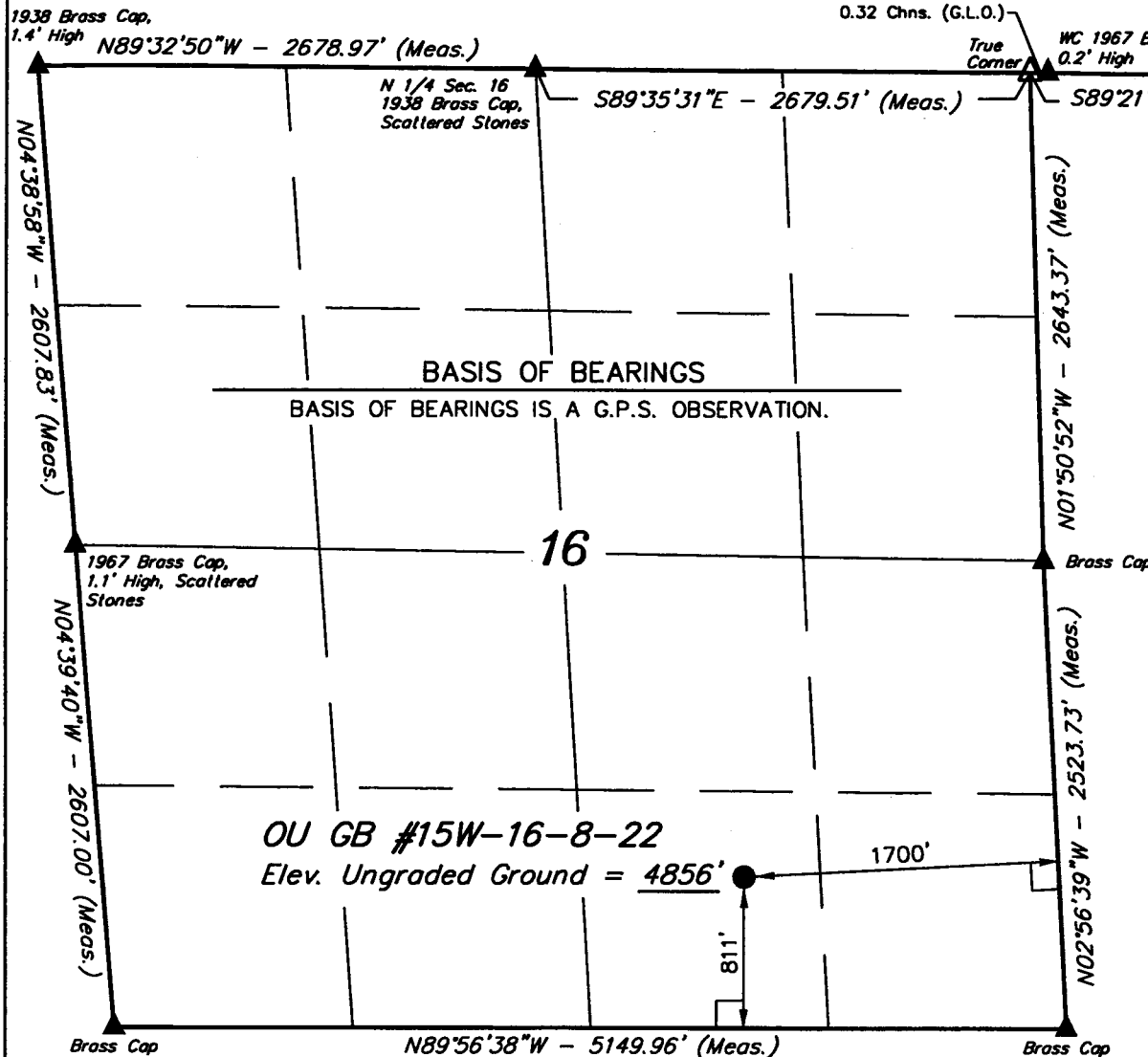
JUL 01 2002

DIVISION OF  
OIL, GAS AND MINING**REVISED**

T8S, R22E, S.L.B.&M.

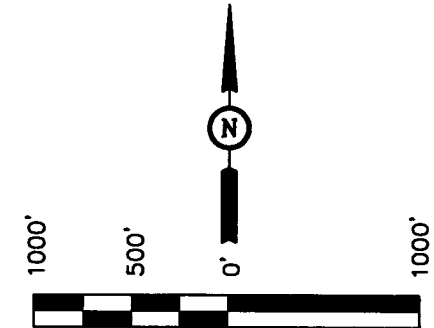
SHENANDOAH ENERGY, INC.

Well location, OU GB #15W-16-8-22, located as shown in the SW 1/4 SE 1/4 of Section 16, T8S, R22E, S.L.B.&M. Uintah County, Utah.



### BASIS OF ELEVATION

BENCH MARK (20 EAM) LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE QUADRANGLE, UTAH, UINTAH COUNTY 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SA ELEVATION IS MARKED AS BEING 4697 FEET.



### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert H. Kay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

### LEGEND:

- └─┘ = 90° SYMBOL
  - = PROPOSED WELL HEAD.
  - ▲ = SECTION CORNERS LOCATED.
  - △ = SECTION CORNERS COMPUTED FROM G.L.O. (Not Set on Ground)
- (NAD 83)
- LATITUDE = 40°07'06.02" (40.118339)
- LONGITUDE = 109°26'28.99" (109.441386)

UINTAH ENGINEERING & LAND SURVEYING  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

|                          |                                 |                         |
|--------------------------|---------------------------------|-------------------------|
| SCALE<br>1" = 1000'      | DATE SURVEYED:<br>06-04-02      | DATE DRAWN:<br>06-06-02 |
| PARTY<br>K.S. T.A. D.COX | REFERENCES<br>G.L.O. PLAT       |                         |
| WEATHER<br>WARM          | FILE<br>SHENANDOAH ENERGY, INC. |                         |

005

**SHENANDOAH ENERGY INC.**

September 3, 2002

11002 East 17500 South, Vernal, UT 84078  
(435) 781-4300 (Office) (435) 781-4329 fax)

**SENT TO:** Dustin  
**PHONE:** (801) 538-5281

**FROM:** Raleen Searle  
**PHONE:** (435) 781-4309

**TOTAL NUMBER OF PAGES BEING SENT (including this one) 8**

**NOTE:** Dustin:  
Here is the revision on the OU GB 15W-16-8-22 for the cement calculations and BOP.  
There is also a copy of the BOP for the OU GB 9W-16-8-22. Please call me if you have  
any further questions!  
Thanks -  
Raleen

**RECEIVED**

SEP 03 2002

DIVISION OF  
OIL, GAS AND MINING



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

FORM 3

| APPLICATION FOR PERMIT TO DRILL                                                                                                                                                         |                                         |                                                      |                                                                                              | 5. MINERAL LEASE NO:<br><b>ML-22049</b>                                      | 6. SURFACE:<br><b>STATE</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------|
| 1A. TYPE OF WORK: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN                                                            |                                         |                                                      |                                                                                              | 7. IF INDIAN, ALLOTTEE OR TRIBE NAME<br><b>N/A</b>                           |                             |
| 8. TYPE OF WELL <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS OTHER _____ <input checked="" type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE |                                         |                                                      |                                                                                              | 8. UNIT OF CO AGREEMENT NAME:<br><b>N/A</b>                                  |                             |
| 2. NAME OF OPERATOR:<br><b>SHENANDOAH ENERGY, INC.</b>                                                                                                                                  |                                         |                                                      |                                                                                              | 9. WELL NAME and NUMBER:<br><b>OU GB 15W-16-8-22</b>                         |                             |
| 3. ADDRESS OF OPERATOR:<br><b>11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078</b>                                                                                                      |                                         |                                                      |                                                                                              | 10. FIELD AND POOL, OR WILDCAT:<br><b>KENNEDY WASH</b>                       |                             |
| 4. LOCATION OF WELL (FOOTAGES)<br>AT SURFACE: <b>311' F8L, 1700' FEL</b><br>AT PROPOSED PRODUCING ZONE: <b>SWSE, SECTION 16, T8S, R22E</b>                                              |                                         |                                                      |                                                                                              | 11. QTR/QTR, SECTION, TOWNSHIP, RANGE,<br>MERIDIAN:<br><b>SWSE 16 8S 22E</b> |                             |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE:<br><b>7.1 MI. CO WEST OF BERNARD, UTAH</b>                                                                        |                                         |                                                      |                                                                                              | 12. COUNTY:<br><b>WYOMING</b>                                                |                             |
| 15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET)<br><b>811 +/-</b>                                                                                                                 |                                         | 16. NUMBER OF ACRES IN LEASE:<br><b>640</b>          |                                                                                              | 17. NUMBER OF ACRES ASSIGNED TO THIS WELL:<br><b>40</b>                      |                             |
| 18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET)<br><b>1800' +/-</b>                                                                             |                                         | 19. PROPOSED DEPTH<br><b>7825</b>                    |                                                                                              | 20. BOND DESCRIPTION:<br><b>04127294</b>                                     |                             |
| 21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.):<br><b>4867' KB</b>                                                                                                                      |                                         | 22. APPROXIMATE DATE WORK WILL START:<br><b>ASAP</b> |                                                                                              | 23. ESTIMATED DURATION:<br><b>10 DAYS</b>                                    |                             |
| <b>24. PROPOSED CASING AND CEMENTING PROGRAM</b>                                                                                                                                        |                                         |                                                      |                                                                                              |                                                                              |                             |
| SIZE OF HOLE                                                                                                                                                                            | CASING SIZE, GRADE, AND WEIGHT PER FOOT |                                                      | SETTING DEPTH                                                                                | CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT                              |                             |
| 12-1/4"                                                                                                                                                                                 | 9-5/8"                                  | K-55 38lb/ft (new)                                   | 450'                                                                                         | Premium Plus                                                                 | 257 1.18 15.6 ppq           |
| 7-7/8"                                                                                                                                                                                  | 4-1/2"                                  | N-80 11.6lb/ft (new)                                 | 1500'                                                                                        | Extended Lite Hi-Hill                                                        | 701 3.81 11.0 ppq           |
| 7-7/8"                                                                                                                                                                                  | 4-1/2"                                  | J-55 11.6lb/ft (new)                                 | TD                                                                                           | Extended Class G                                                             | 363 1.25 14.35 ppq          |
|                                                                                                                                                                                         |                                         |                                                      |                                                                                              |                                                                              |                             |
|                                                                                                                                                                                         |                                         |                                                      |                                                                                              |                                                                              |                             |
|                                                                                                                                                                                         |                                         |                                                      |                                                                                              |                                                                              |                             |
|                                                                                                                                                                                         |                                         |                                                      |                                                                                              |                                                                              |                             |
|                                                                                                                                                                                         |                                         |                                                      |                                                                                              |                                                                              |                             |
| <b>25. ATTACHMENTS</b>                                                                                                                                                                  |                                         |                                                      |                                                                                              |                                                                              |                             |
| VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:                                                                                   |                                         |                                                      |                                                                                              |                                                                              |                             |
| <input type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER                                                                                                     |                                         |                                                      | <input type="checkbox"/> COMPLETE DRILLING PLAN                                              |                                                                              |                             |
| <input type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER                                                                                                 |                                         |                                                      | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |                                                                              |                             |
| NAME (PLEASE PRINT) <u>John Busch</u>                                                                                                                                                   |                                         | TITLE <u>Construction Supervisor</u>                 |                                                                                              |                                                                              |                             |
| SIGNATURE <u>Raleen Seale for John Busch</u>                                                                                                                                            |                                         | DATE <u>12-Jun-02</u>                                |                                                                                              |                                                                              |                             |
| (This space for State use only)                                                                                                                                                         |                                         |                                                      |                                                                                              |                                                                              |                             |
| API NUMBER ASSIGNED: _____                                                                                                                                                              |                                         |                                                      | APPROVAL: _____                                                                              |                                                                              |                             |

(11/2001)

(See Instruction on Reverse Side)

**REVISED**  
**Cement**

Calculations  
9-3-02

Shenandoah Energy Inc.  
OU GB 15W-16-8-22

## DRILLING PROGRAM

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

### 1. Formation Tops

The estimated tops of important geologic markers are as follows:

| <u>Formation</u> | <u>Depth</u> | <u>Prod. Phase Anticipated</u> |
|------------------|--------------|--------------------------------|
| Uinta            | Surface      |                                |
| Green River      | 2484'        |                                |
| Mahogany Ledge   | 3384'        |                                |
| Wasatch          | 5874'        |                                |
| TD (Wasatch)     | 7525'        |                                |

### 2. Anticipated Depths of Oil Gas Water and Other Mineral Bearing Zones

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

| <u>Substance</u> | <u>Formation</u> | <u>Depth</u> |
|------------------|------------------|--------------|
| Oil/Gas          | Wasatch          | 7525'        |

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the State of Utah form OGC-8-X is acceptable. If no flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right #36125 or where possible a fresh water line (poly pipe) will be laid in the access road to each location to supply fresh water for drilling purposes.

**REVISED**  
Cement  
calculations  
9-3-02

Shenandoah Energy Inc.  
OU GB 15W-16-8-22

### DRILLING PROGRAM

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5. Casing Program

|            | <u>Depth</u> | <u>Hole Size</u> | <u>Csg Size</u> | <u>Type</u> | <u>Weight</u>   |
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| Surface    | 450'         | 12-1/4"          | 9-5/8"          | K-55        | 36lb/ft (new)   |
| Production | 7525'        | 7-7/8"           | 4-1/2"          | J-55        | 11.6lb/ft (new) |

6. Auxiliary Equipment

- A. Kelly Cock – yes
- B. Float at the bit – no
- C. Monitoring equipment on the mud system – visually
- D. Full opening safety valve on the rig floor – yes
- E. Rotating Head – yes
- F. The blooie line shall be at least 6" in diameter and extend at least 100' from the well bore into the reserve/blooie pit.

**REVISED**  
Cement  
calculations  
9-3-02

Shenandoah Energy Inc.  
OU GB 15W-16-8-22

### DRILLING PROGRAM

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  - I. A mister with a continuous stream of water shall be installed near the end of the blooie lines for dust suppression.
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- No minimum quantity of weight material will be required to be kept on location.
- PVT/Flow Show will be used from base of surface casing to TD.
- Gas detector will be used from surface casing depth to TD.

8. Testing, logging and coring program

- A. Cores – none anticipated
- B. DST – none anticipated

Logging – Mud logging – 4500 to TD  
GR-SP-Induction  
Neutron Density  
MRI

- C. Formation and Completion Interval: Wasatch interval, final determination of completion will be made by analysis of logs.  
Stimulation – Stimulation will be designed for the particular area of interest as encountered.

**REVISED**  
Cement  
calculations  
9-3-02

Shenandoah Energy Inc.  
OU GB 15W-16-8-22

## DRILLING PROGRAM

### 9. Cementing Program

| <u>Casing</u> | <u>Volume</u>                | <u>Type &amp; Additives</u>                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Surface       | 257 sx                       | Premium Plus single slurry mixed to 15.6 ppg, yield = 1.18 cf/sx. Fill to surface with 160 cf (257 sx) calculated. Tail plug used. Allowed to set under pressure                                                                                                                                                                                                                                                                               |
| Production    | 701 sx* Lead<br>353 sx* Tail | Lead/Tail oilfield type cement circulated in place .<br>Tail slurry: Extended Class "G" + gilsonite and additives as required, mixed to 14.35 ppg, yield = 1.25 cf/sx. Fill to 6355' ( $\pm$ 300' above top of Lower Wasatch).<br>Cement Characteristics:<br>Lead slurry: Extended, Lite, Hi-fill + extender and additives as required, mixed to 11.0 ppg, yield = 3.81 cf/sx. Fill to surface. Tail plug used. Allowed to set under pressure. |

\*Final cement volumes to be calculated from caliper log with an attempt to be made to circulate cement to the surface. A bond log will be run across the zone of interest and across zones as required by the authorized officer to insure protection of natural resources.

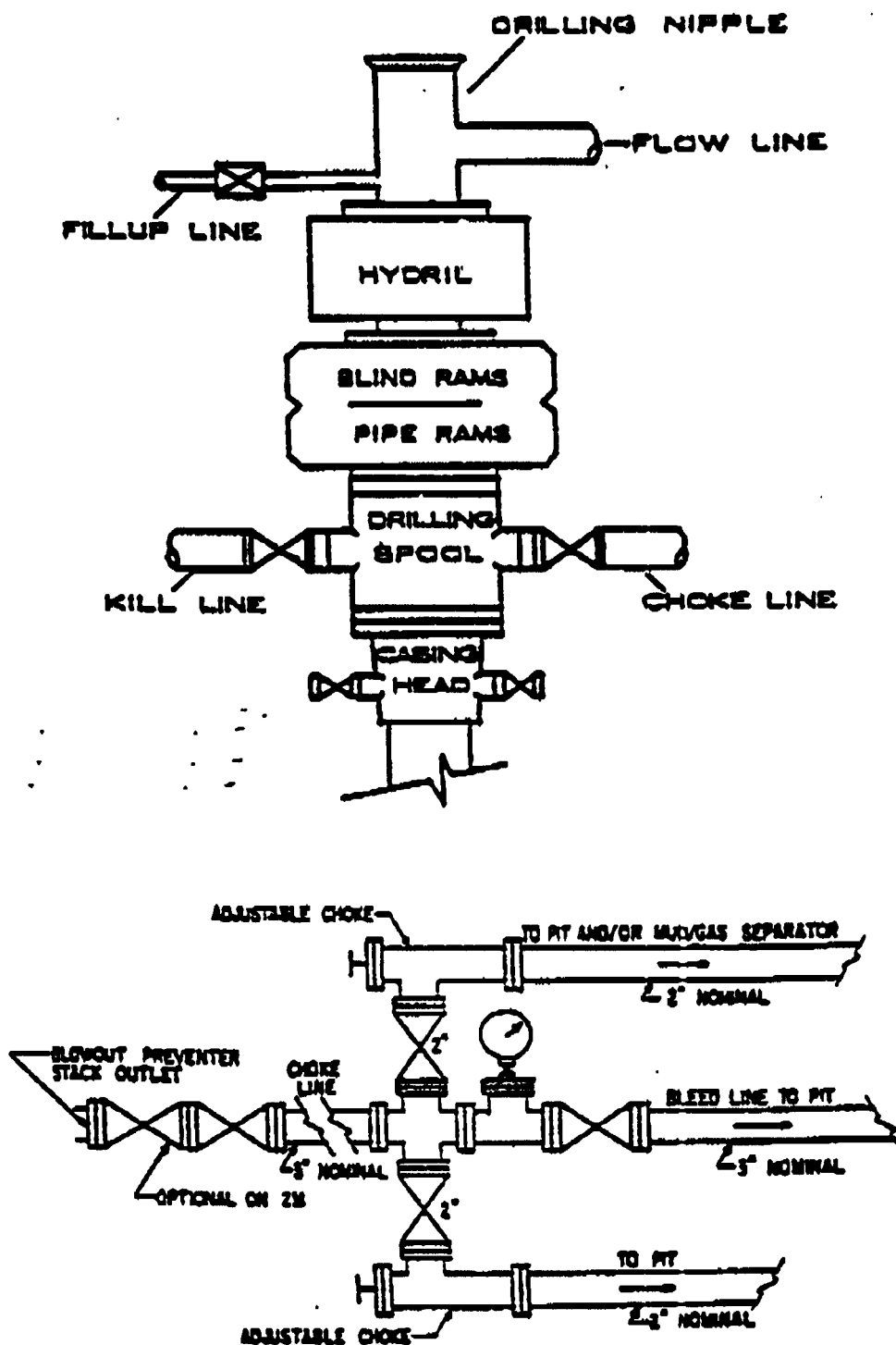
### 10. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 3010.0 psi. Maximum anticipated bottom hole temperature is 140° F.

**REVISED**  
cement  
calculations  
9-3-02

## Drilling Program

## SCHEMATIC DIAGRAM OF 3,000 PSI BOP STACK



006

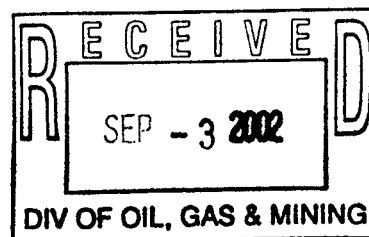
**SHENANDOAH ENERGY INC.**

---

11002 East 17500 South  
Vernal, UT 84078  
Phone: (435) 781-4300  
Fax (435) 781-4329

August 8, 2002

Division of Oil, Gas & Mining  
1594 W. N. Temple STE 1210  
Salt Lake City, UT 84114-5801



To Whom It May Concern:

In reference to the State Oil and Gas Conservation rule R649-3-3 Shenandoah Energy Inc. OU GB 15W-16-8-22 is an exception location due to topography.

There are no additional lease owners with 460' of the proposed location. If you have any question please contact Raleen Searle @ (435) 781-4309.

Thank you,

A handwritten signature in cursive script that reads "Raleen Searle".

Raleen Searle  
Regulatory Affairs Analyst



## SHENANDOAH ENERGY INC.

11002 East 17500 South  
Vernal, UT 84078  
Phone: (435) 781-4300  
Fax (435) 781-4329

August 8, 2002

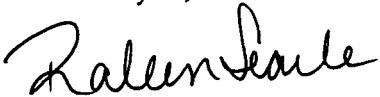
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Thank you,



Raleen Searle  
Regulatory Affairs Analyst

**RECEIVED**  
SEP 14 2002  
DIVISION OF  
OIL, GAS AND MINING

## DRILLING PROGRAM

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| Surface    | 450'         | 12-1/4"          | 9-5/8"          | K-55        | 36lb/ft (new)   |
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6. Auxiliary Equipment

- A. Kelly Cock – yes
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- D. Full opening safety valve on the rig floor – yes
- E. Rotating Head – yes
- F. The blooie line shall be at least 6" in diameter and extend at least 100' from the well bore into the reserve/blooie pit.

**RECEIVED**

SEP 04 2002

DIVISION OF  
OIL, GAS AND MINING**REVISED**  
Surface Own  
8-29-02



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

(801) 538-5340 telephone

(801) 359-3940 fax

(801) 538-7223 TTY

[www.nr.utah.gov](http://www.nr.utah.gov)

Michael O. Leavitt  
Governor

Robert L. Morgan  
Executive Director

Lowell P. Braxton  
Division Director

September 4, 2002

Shenandoah Energy, Inc  
11002 E 17500 So.  
Vernal, UT 84078

Re: Over and Under Glen Bench 15W-16-8-22 Well, 811' FSL, 1700' FEL, SW SE, Sec. 16,  
T. 8 South, R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-34622.

Sincerely,

John R. Baza  
Associate Director

pb

Enclosures

cc: Uintah County Assessor  
SITLA

**Operator:** Shenandoah Energy, Inc  
**Well Name & Number** Over and Under Glen Bench 15W-16-8-22  
**API Number:** 43-047-34622  
**Lease:** ML-22049

**Location:** SW SE                      **Sec.** 16                      **T.** 8 South                      **R.** 22 East

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.**

**5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)**

September 3, 2002

Division of Oil, Gas & Mining  
1594 W. North Temple, STE 1210  
Salt Lake City, UT 84114-5801

Attention: Dustin (801) 538-5281

Dear Dustin:

The enclosed are copies of the revisions on the OU GB 15W-16-8-22 which I faxed to your office earlier today. I have also enclosed copies of the BOP diagram for the OU GB 9W-16-8-22.

If you have any further questions please contact me at (435) 781-4309.

Thank you,



Raleen Searle  
Regulatory Affairs Analyst

Enclosures

**RECEIVED**

SEP 05 2002

**DIVISION OF  
OIL, GAS AND MINING**

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

FORM 3

|                                                                                                                                                                                         |                                                      |                                                                              |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------|
| <b>APPLICATION FOR PERMIT TO DRILL</b>                                                                                                                                                  |                                                      | 5. MINERAL LEASE NO:<br><b>ML-22049</b>                                      | 6. SURFACE:<br><b>STATE</b> |
| 1A. TYPE OF WORK: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN                                                            |                                                      | 7. IF INDIAN, ALLOTTEE OR TRIBE NAME<br><b>N/A</b>                           |                             |
| B. TYPE OF WELL <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS OTHER _____ <input checked="" type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE |                                                      | 8. UNIT OR CA AGREEMENT NAME:<br><b>N/A</b>                                  |                             |
| 2. NAME OF OPERATOR:<br><b>SHENANDOAH ENERGY, INC.</b>                                                                                                                                  |                                                      | 9. WELL NAME and NUMBER:<br><b>OU GB 15W-16-8-22</b>                         |                             |
| 3. ADDRESS OF OPERATOR:<br><b>11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078</b>                                                                                                      |                                                      | 10. FIELD AND POOL, OR WILDCAT:<br><b>KENNEDY WASH</b>                       |                             |
| 4. LOCATION OF WELL (FOOTAGES)<br>AT SURFACE: <b>811' FSL, 1700' FEL</b><br>AT PROPOSED PRODUCING ZONE: <b>SWSE, SECTION 16, T8S, R22E</b>                                              |                                                      | 11. QTR/QTR, SECTION, TOWNSHIP, RANGE,<br>MERIDIAN:<br><b>SWSE 16 8S 22E</b> |                             |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE:<br><b>7+/- MILES WEST OF REDWASH, UTAH</b>                                                                        |                                                      | 12. COUNTY:<br><b>UINTAH</b>                                                 | 13. STATE:<br><b>UTAH</b>   |
| 15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE(FEET)<br><b>811 +/-</b>                                                                                                                  | 16. NUMBER OF ACRES IN LEASE:<br><b>640</b>          | 17. NUMBER OF ACRES ASSIGNED TO THIS WELL:<br><b>40</b>                      |                             |
| 18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR<br>APPLIED FOR) ON THIS LEASE (FEET)<br><b>1600' +/-</b>                                                                          | 19. PROPOSED DEPTH<br><b>7625</b>                    | 20. BOND DESCRIPTION:<br><b>04127294</b>                                     |                             |
| 21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.):<br><b>4867' KB</b>                                                                                                                      | 22. APPROXIMATE DATE WORK WILL START:<br><b>ASAP</b> | 23. ESTIMATED DURATION:<br><b>10 DAYS</b>                                    |                             |

| 24 PROPOSED CASING AND CEMENTING PROGRAM |                                         |      |                 |               |                                                 |     |                |
|------------------------------------------|-----------------------------------------|------|-----------------|---------------|-------------------------------------------------|-----|----------------|
| SIZE OF HOLE                             | CASING SIZE, GRADE, AND WEIGHT PER FOOT |      |                 | SETTING DEPTH | CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT |     |                |
| 12-1/4"                                  | 9-5/8"                                  | K-55 | 36lb/ft (new)   | 450'          | Premium Plus                                    | 257 | 1.18 15.6 ppg  |
| 7-7/8"                                   | 4-1/2"                                  | N-80 | 11.6lb/ft (new) | 1500'         | Extended Lite Hi-fill                           | 701 | 3.81 11.0 ppg  |
| 7-7/8"                                   | 4-1/2"                                  | J-55 | 11.6lb/ft (new) | TD            | Extended Class G                                | 353 | 1.25 14.35 ppg |
|                                          |                                         |      |                 |               |                                                 |     |                |
|                                          |                                         |      |                 |               |                                                 |     |                |
|                                          |                                         |      |                 |               |                                                 |     |                |
|                                          |                                         |      |                 |               |                                                 |     |                |

25 ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERATION GENERAL RULES:

|                                                                                         |                                                                                           |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <input type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER     | <input type="checkbox"/> COMPLETE DRILLING PLAN                                           |
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|                                              |                                      |
|----------------------------------------------|--------------------------------------|
| NAME (PLEASE PRINT) <u>John Busch</u>        | TITLE <u>Construction Supervisor</u> |
| SIGNATURE <u>Rallen Seale for John Busch</u> | DATE <u>12-Jun-02</u>                |

(This space for State use only)

API NUMBER ASSIGNED: \_\_\_\_\_ APPROVAL: \_\_\_\_\_

(11/2001) **RECEIVED** (See Instruction on Reverse Side)

SEP 05 2002

DIVISION OF OIL, GAS AND MINING

**REVISED**  
Cement  
Calculations  
9-3-02

## DRILLING PROGRAM

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**REVISED**  
Cement  
calculations  
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**REVISED**  
Cement  
calculations  
9-3-02



## DRILLING PROGRAM

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**REVISED**  
Cement

calculations  
9-3-02

## DRILLING PROGRAM

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### 10. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 3010.0 psi. Maximum anticipated bottom hole temperature is 140° F.

**REVISED**  
cement  
calculations  
9-3-02

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

5. Lease Serial No.  
**ML-22049**

6. If Indian, Allottee or Tribe Name  
**N/A**

7. If Unit or CA/Agreement, Name and/or No.  
**N/A**

8. Well Name and No.  
**OU GB 15W 16-8-22**

9. API Well No.  
**43-047-34622**

10. Field and Pool, or Exploratory  
**KENNEDY WASH**

11. County or Parish, and State  
**UINTAH COUNTY, UT**

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
**SHENANDOAH ENERGY**

Contact: **DAHN F. CALDWELL**  
E-Mail: **Dahn.Caldwell@questar.com**

3a. Address  
**11002 E. 17500 S.  
VERNAL, UT 84078**

3b. Phone No. (include area code)  
Ph: **435.781.4342**  
Fx: **435.781.4357**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**Sec 16 T8S R22E SWSE 811FSL 1700FEL**

**CONFIDENTIAL**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |                                           |                                                    |                                           |
|-------------------------------------------------------|-----------------------------------------------|-------------------------------------------|----------------------------------------------------|-------------------------------------------|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off   |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity   |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other |
|                                                       | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       | Well Spud                                 |
|                                                       | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |                                           |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

This well was spud on 9/14/02. Drilled 12 1/4" hole to 472'KB. Ran 11 joints 9 5/8" 36# casing to 464'KB.

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SEP 18 2002

DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #14275 verified by the BLM Well Information System  
For SHENANDOAH ENERGY, sent to the Vernal**

Name (Printed/Typed) **DAHN F. CALDWELL**

Title **AUTHORIZED REPRESENTATIVE**

Signature

*Dahn F. Caldwell*

Date **09/16/2002**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

**CONFIDENTIAL**

State of Utah  
Division of Oil, Gas and Mining

## ENTITY ACTION FORM - FORM 6

OPERATOR: **Shenandoah Energy, Inc.**  
ADDRESS: **11002 East 17500 South**  
**Vernal, Utah 84078-8526**

OPERATOR ACCT. No. N-4235

(435)781-4300

| Action Code | Current Entity No. | New Entity No. | API Number   | Well Name         | QQ   | SC | TP | RG  | County | Spud Date | Effective Date |
|-------------|--------------------|----------------|--------------|-------------------|------|----|----|-----|--------|-----------|----------------|
| B<br>A      | 99999              | 13595          | 43-047-34622 | OU GB 15W 16 8 22 | SWSE | 16 | 8S | 22E | Uintah | 9/14/02   | 9-18-02        |

## WELL 1 COMMENTS:

New well to be drilled outside the Kennedy Wash &amp; is not in a participating area.

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## WELL 2 COMMENTS:

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## WELL 3 COMMENTS:

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## WELL 4 COMMENTS:

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## WELL 5 COMMENTS:

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## ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

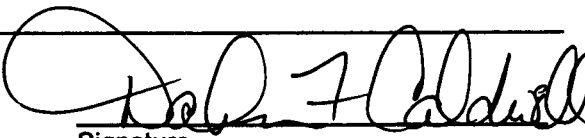
NOTE: Use COMMENT section to explain why each Action Code was selected

(3/89)

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SEP 18 2002

DIVISION OF  
OIL, GAS AND MINING

  
Signature

Clerk Specialist 9/16/02  
Title Date

Phone No. (435) 781-4342

CONFIDENTIAL

012

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS AND MINING**

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

|                                                                                                               |  |                                                     |
|---------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------|
| 1. TYPE OF WELL<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____ |  | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br>ML-22049 |
| 2. NAME OF OPERATOR:<br>SHENANDOAH ENERGY INC                                                                 |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:<br>N/A        |
| 3. ADDRESS OF OPERATOR:<br>11002 E 17500 S CITY VERNAL STATE UT ZIP 84078                                     |  | 7. UNIT or CA AGREEMENT NAME:<br>N/A                |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE: 811' FSL, 1700' FEL                                               |  | 8. WELL NAME and NUMBER:<br>OU GB 15W-16-8-22       |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 16 8S 22E S                                                 |  | 9. API NUMBER:<br>4304734622                        |
| COUNTY: UINTAH                                                                                                |  | 10. FIELD AND POOL, OR WILDCAT:<br>KENNEDY WASH     |
| STATE: UTAH                                                                                                   |  |                                                     |

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

| TYPE OF SUBMISSION                                                                                               | TYPE OF ACTION                                          |                                                           |                                                        |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------|
| <input type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br>Approximate date work will start:<br>_____ | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
|                                                                                                                  | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL      |
|                                                                                                                  | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARILY ABANDON           |
|                                                                                                                  | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input type="checkbox"/> OPERATOR CHANGE                  | <input type="checkbox"/> TUBING REPAIR                 |
|                                                                                                                  | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLARE                 |
| <input type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br>Date of work completion:<br>_____   | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL                |
|                                                                                                                  | <input type="checkbox"/> CHANGE WELL STATUS             | <input type="checkbox"/> PRODUCTION (START/RESUME)        | <input type="checkbox"/> WATER SHUT-OFF                |
|                                                                                                                  | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input type="checkbox"/> OTHER: _____                  |
|                                                                                                                  | <input type="checkbox"/> CONVERT WELL TYPE              | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |                                                        |

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS.** Clearly show all pertinent details including dates, depths, volumes, etc.

Shenandoah Energy Inc. is changing the production casing from 4 1/2" to 5 1/2". The 5 1/2" casing will be ran as followed:

N-80 - 1086.53' New 17lb LT&C than 6,344.33' of J-55 New 15.5lb LT&C than 568.75' of N-80 New 17lb LT&C to TD.

Cement is as follows:

Lead - 585 SX HIFIL MOD 165 GEL, .75%EX-1.8% HR-7.3% SALT.125#SX PLYFLAKE 3#SX GRANULATE 5#SX GILSONITE.

Tail - 995 SX 50/50 POZ 2% GEL, 4% HALAD - 322, 2% MICROBOND-M5% SALT PLUG DOWN

**RECEIVED**

OCT 31 2002

DIVISION OF  
OIL, GAS AND MINING

NAME (PLEASE PRINT)

Raleen Searle

TITLE

Regulatory Affairs Analyst

SIGNATURE

Raleen Searle

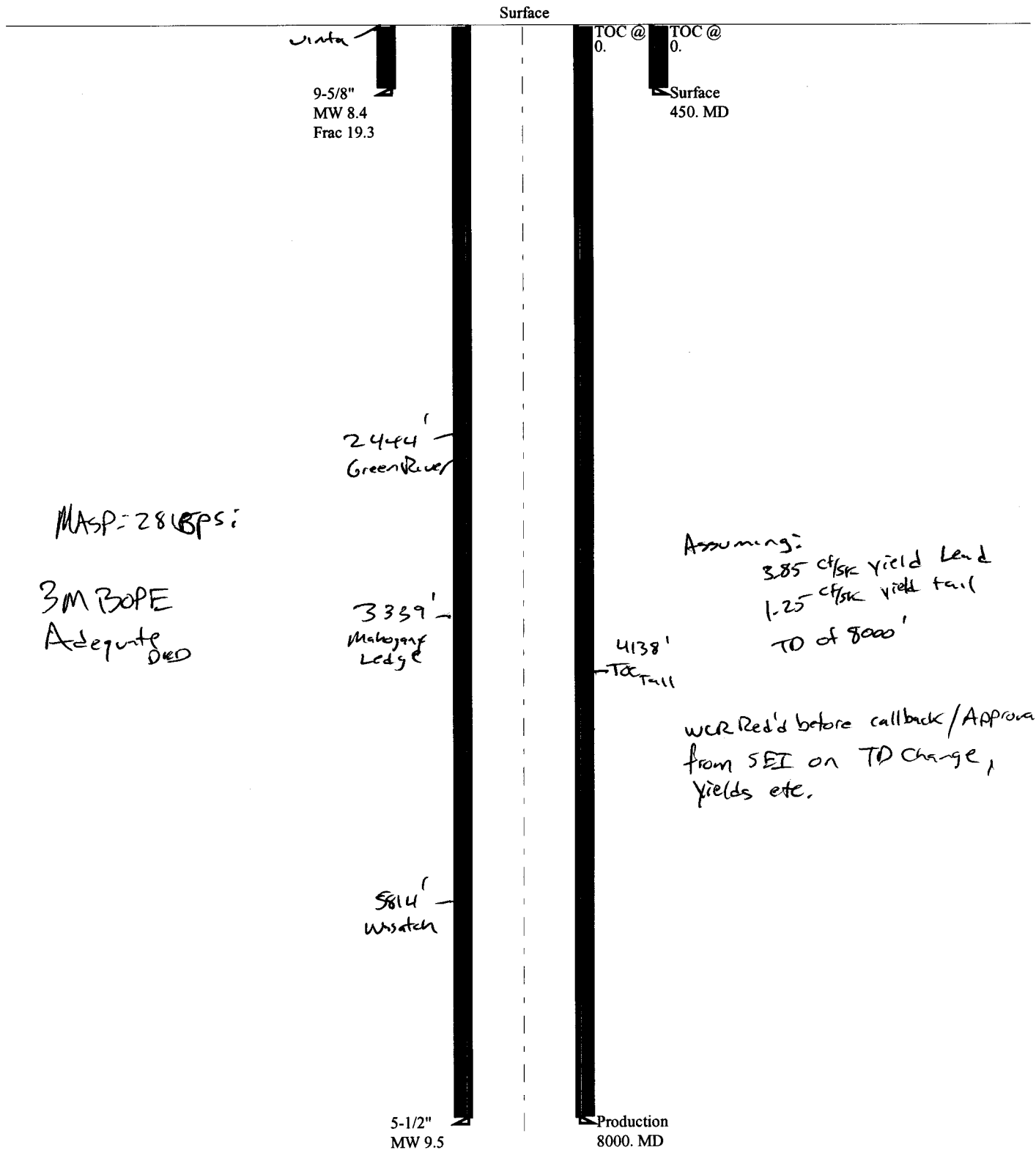
DATE

10-29-02

(This space for State use only)

Work completed before Approval (WCR Received Nov 20, 2002) - Was questioning  
 Cultbosc on cement yields and apparent TD change - Using Assumptions work looks Adequate.  
 DWD 4/25/2002

Casing Schematic



Well name: **11-02 Shenandoah OU GB 15W-16-8-22rev.**  
 Operator: **Shenandoah Energy Inc.**  
 String type: **Production**  
 Location: **Uintah County**  
 Project ID:  
**43-047-34622**

**Design parameters:**

**Collapse**

Mud weight: 9.500 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 65 °F  
 Bottom hole temperature: 157 °F  
 Temperature gradient: 1.15 °F/100ft  
 Minimum section length: 1,500 ft

Cement top:

Surface

**Burst**

Max anticipated surface pressure: 0 psi  
 Internal gradient: 0.494 psi/ft  
 Calculated BHP 3,948 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Non-directional string.

Tension is based on air weight.

Neutral point: 6,881 ft

| Run Seq | Segment Length (ft) | Size (in) | Nominal Weight (lbs/ft) | Grade | End Finish | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in) | Internal Capacity (ft³) |
|---------|---------------------|-----------|-------------------------|-------|------------|----------------------|---------------------|---------------------|-------------------------|
| 3       | 600                 | 5.5       | 17.00                   | N-80  | LT&C       | 600                  | 600                 | 4.767               | 20.7                    |
| 2       | 6800                | 5.5       | 15.50                   | J-55  | LT&C       | 7400                 | 7400                | 4.825               | 213.2                   |
| 1       | 600                 | 5.5       | 17.00                   | N-80  | LT&C       | 8000                 | 8000                | 4.767               | 20.7                    |

| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor | Tension Load (Kips) | Tension Strength (Kips) | Tension Design Factor |
|---------|---------------------|-------------------------|------------------------|------------------|----------------------|---------------------|---------------------|-------------------------|-----------------------|
| 3       | 296                 | 5560                    | <u>18.78</u>           | 296              | 7740                 | <u>26.14</u>        | 126                 | 348                     | <u>2.77 J</u>         |
| 2       | 3652                | 3994                    | <u>1.09</u>            | 3652             | 4810                 | <u>1.32</u>         | 116                 | 217                     | <u>1.88 J</u>         |
| 1       | 3948                | 6290                    | <u>1.59</u>            | 3948             | 7740                 | <u>1.96</u>         | 10                  | 348                     | <u>34.12 J</u>        |

*adequate*

Prepared by: Dustin K. Doucet  
 Utah Dept. of Natural Resources

Phone: 801-538-5281  
 FAX: 801-359-3940

Date: November 25, 2002  
 Salt Lake City, Utah

**ENGINEERING STIPULATIONS:**

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

013

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

|                                                                                                                                  |                                                                           |                                                      |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------|
| 1. Type of Well<br><input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other |                                                                           | 8. Well Name and No.<br>OUGB 15W 16 8 22             |
| 2. Name of Operator<br>SHENANDOAH ENERGY INC.                                                                                    |                                                                           | 9. API Well No.<br>43-047-34622                      |
| 3a. Address<br>11002 EAST 17500 SOUTH<br>VERNAL, UT 84078                                                                        | 3b. Phone No. (include area code)<br>Ph: 435.781.4306<br>Fx: 435.781.4329 | 10. Field and Pool, or Exploratory<br>KENNEDY WASH   |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>Sec 16 T8S R22E SWSE 811FSL 1700FEL                    |                                                                           | 11. County or Parish, and State<br>UINTAH COUNTY, UT |

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |                                           |                                                    |                                           |
|-------------------------------------------------------|-----------------------------------------------|-------------------------------------------|----------------------------------------------------|-------------------------------------------|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off   |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity   |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other |
|                                                       | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       | Production Start-up                       |
|                                                       | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |                                           |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

THIS WELL COMMENCED PRODUCTION ON 11/08/02.

**RECEIVED**  
NOV 18 2002  
DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #16093 verified by the BLM Well Information System  
For SHENANDOAH ENERGY INC., sent to the Vernal

Name (Printed/Typed) ANN PETRIK

Title ADMINISTRATIVE CONTACT

Signature (Electronic Submission)

Date 11/14/2002

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***



## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

014

|                                                                                                                                                                                                                                                                                                                              |                                    |                                                                                                       |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------|
| 1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other                                                                                                                                                                  |                                    | 6. If Indian, Allottee or Tribe Name                                                                  |                     |
| b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resrv.                                                                                                               |                                    | 7. Unit or CA Agreement Name and No.                                                                  |                     |
| 2. Name of Operator<br>SHENANDOAH ENERGY                                                                                                                                                                                                                                                                                     |                                    | Contact: DAHN F. CALDWELL<br>E-Mail: Dahn.Caldwell@questar.com                                        |                     |
| 3. Address 11002 E. 17500 S.<br>VERNAL, UT 84078                                                                                                                                                                                                                                                                             |                                    | 3a. Phone No. (include area code)<br>Ph: 435.781.4342                                                 |                     |
| 4. Location of Well (Report location clearly and in accordance with Federal requirements)*<br><br>At surface SWSE 811FSL 1700FEL<br><br>At top prod interval reported below SWSE 811FSL 1700FEL<br><br>At total depth SWSE 811FSL 1700FEL                                                                                    |                                    | 10. Field and Pool, or Exploratory<br>KENNEDY WASH                                                    |                     |
| 14. Date Spudded<br>09/15/2002                                                                                                                                                                                                                                                                                               |                                    | 15. Date T.D. Reached<br>10/08/2002                                                                   |                     |
| 16. Date Completed<br><input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.<br>11/07/2002                                                                                                                                                                                                        |                                    | 17. Elevations (DF, KB, RT, GL)*<br>4853 GL                                                           |                     |
| 18. Total Depth: MD 7975<br>TVD                                                                                                                                                                                                                                                                                              |                                    | 19. Plug Back T.D.: MD 7919<br>TVD                                                                    |                     |
| 20. Depth Bridge Plug Set: MD<br>TVD                                                                                                                                                                                                                                                                                         |                                    | 21. Type Electric & Other Mechanical Logs Run (Submit copy of each)<br>CBL, FRI, SPECTRAL DENSITY DSN |                     |
| 22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)<br>Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)<br>Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) |                                    |                                                                                                       |                     |
| 23. Casing and Liner Record (Report all strings set in well)                                                                                                                                                                                                                                                                 |                                    |                                                                                                       |                     |
| Hole Size                                                                                                                                                                                                                                                                                                                    | Size/Grade                         | Wt. (#/ft.)                                                                                           | Top (MD)            |
| 12.250                                                                                                                                                                                                                                                                                                                       | 9.625 K-55                         | 36.0                                                                                                  |                     |
| 7.875                                                                                                                                                                                                                                                                                                                        | 4.500 J55-N80                      | 11.6                                                                                                  |                     |
| 24. Tubing Record                                                                                                                                                                                                                                                                                                            |                                    |                                                                                                       |                     |
| Size                                                                                                                                                                                                                                                                                                                         | Depth Set (MD)                     | Packer Depth (MD)                                                                                     | Size                |
| 2.375                                                                                                                                                                                                                                                                                                                        | 7753                               |                                                                                                       |                     |
| 25. Producing Intervals                                                                                                                                                                                                                                                                                                      |                                    |                                                                                                       |                     |
| Formation                                                                                                                                                                                                                                                                                                                    | Top                                | Bottom                                                                                                | Perforated Interval |
| A) WASATCH                                                                                                                                                                                                                                                                                                                   | 5777                               | 7975                                                                                                  | 7784 TO 7796        |
| B)                                                                                                                                                                                                                                                                                                                           |                                    |                                                                                                       | 7018 TO 7380        |
| C)                                                                                                                                                                                                                                                                                                                           |                                    |                                                                                                       | 6628 TO 6642        |
| D)                                                                                                                                                                                                                                                                                                                           |                                    |                                                                                                       |                     |
| 26. Perforation Record                                                                                                                                                                                                                                                                                                       |                                    |                                                                                                       |                     |
| Depth Interval                                                                                                                                                                                                                                                                                                               | Amount and Type of Material        |                                                                                                       |                     |
| 7784 TO 7796                                                                                                                                                                                                                                                                                                                 | FRAC W/ 40,000 LBS IN 27,300 GALS  |                                                                                                       |                     |
| 7018 TO 7380                                                                                                                                                                                                                                                                                                                 | FRAC W/ 50,000 LBS IN 29,820 GALS  |                                                                                                       |                     |
| 6628 TO 6642                                                                                                                                                                                                                                                                                                                 | FRAC W/ 100,300 LBS IN 42,672 GALS |                                                                                                       |                     |
| 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.                                                                                                                                                                                                                                                                          |                                    |                                                                                                       |                     |
| 28. Production - Interval A                                                                                                                                                                                                                                                                                                  |                                    |                                                                                                       |                     |
| Date First Produced                                                                                                                                                                                                                                                                                                          | Test Date                          | Hours Tested                                                                                          | Test Production     |
| 11/08/2002                                                                                                                                                                                                                                                                                                                   | 11/12/2002                         | 24                                                                                                    | 12.1                |
| Choke Size                                                                                                                                                                                                                                                                                                                   | Tbg. Press. Flwg. SI               | Csg. Press.                                                                                           | 24 Hr. Rate         |
|                                                                                                                                                                                                                                                                                                                              | 171                                | 521.0                                                                                                 |                     |
| 28a. Production - Interval B                                                                                                                                                                                                                                                                                                 |                                    |                                                                                                       |                     |
| Date First Produced                                                                                                                                                                                                                                                                                                          | Test Date                          | Hours Tested                                                                                          | Test Production     |
|                                                                                                                                                                                                                                                                                                                              |                                    |                                                                                                       |                     |
| Choke Size                                                                                                                                                                                                                                                                                                                   | Tbg. Press. Flwg. SI               | Csg. Press.                                                                                           | 24 Hr. Rate         |
|                                                                                                                                                                                                                                                                                                                              |                                    |                                                                                                       |                     |

(See Instructions and spaces for additional data on reverse side)

**ELECTRONIC SUBMISSION #16104 VERIFIED BY THE BLM WELL INFORMATION SYSTEM**

IC SUBMISSION #16104 VERIFIED BY THE BLM WELL INFORMATION SYSTEM  
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**CONFIDENTIAL**

## 28b. Production - Interval C

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                      |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
|                     |                      |              | →               |         |         |           |                       |             |                   |

## 28c. Production - Interval D

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                      |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
|                     |                      |              | →               |         |         |           |                       |             |                   |

29. Disposition of Gas(Sold, used for fuel, vented, etc.)  
SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

| Formation | Top | Bottom | Descriptions, Contents, etc. | Name                                                      | Top<br>Meas. Depth                   |
|-----------|-----|--------|------------------------------|-----------------------------------------------------------|--------------------------------------|
|           |     |        |                              | GREEN RIVER<br>MAHOGONY<br>GLEN BENCH SD<br>WASATCH<br>TD | 2417<br>3317<br>4947<br>5777<br>7975 |

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## 32. Additional remarks (include plugging procedure):

"Confidential. Do not release well information without permission from Shenandoah Energy Inc."

Cemented w/585 sxs HiFill Mod Lead & 995 sxs 50/50 Pozmix Tail.

DIVISION OF  
OIL, GAS AND MINING

## 33. Circle enclosed attachments:

- |                                                       |                    |               |                       |
|-------------------------------------------------------|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7 Other:      |                       |

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #16104 Verified by the BLM Well Information System.  
For SHENANDOAH ENERGY, sent to the Vernal

Name (please print) JIM SIMONTON

Title COMPLETION MANAGER

Signature (Electronic Submission)

Date 11/18/2002

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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## OPERATOR CHANGE WORKSHEET

015

## ROUTING

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

2/1/2003

**FROM:** (Old Operator):N4235-Shenandoah Energy Inc  
11002 E 17500 S  
Vernal, UT 84078-8526

Phone: (435) 781-4341

**TO:** ( New Operator):N2460-QEP Uinta Basin Inc  
11002 E 17500 S  
Vernal, UT 84078-8526

Phone: (435) 781-4341

CA No.

Unit:

## WELL(S)

| NAME              | SEC | TWN  | RNG  | API NO     | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS | Confid |
|-------------------|-----|------|------|------------|-----------|------------|-----------|-------------|--------|
| WV 7W-36-7-21     | 36  | 070S | 210E | 4304734065 | 13334     | State      | GW        | TA          |        |
| WV 9W-36-7-21     | 36  | 070S | 210E | 4304734066 | 13331     | State      | GW        | TA          |        |
| GB 6W-25-8-21     | 25  | 080S | 210E | 4304734121 | 13440     | Fee        | GW        | P           |        |
| GB 7W-25-8-21     | 25  | 080S | 210E | 4304734122 | 13436     | Fee        | GW        | P           |        |
| GH 5G-32-8-21     | 32  | 080S | 210E | 4304733866 | 13037     | State      | OW        | P           |        |
| GB 1W-36-8-21     | 36  | 080S | 210E | 4304733944 | 13439     | State      | GW        | P           |        |
| GB 11W-16-8-22    | 16  | 080S | 220E | 4304733754 | 13582     | State      | GW        | P           | C      |
| OU GB 4W-16-8-22  | 16  | 080S | 220E | 4304734598 | 13579     | State      | GW        | P           | C      |
| OU GB 12W-16-8-22 | 16  | 080S | 220E | 4304734617 | 13697     | State      | GW        | P           | C      |
| OU GB 13W-16-8-22 | 16  | 080S | 220E | 4304734618 | 13611     | State      | GW        | P           | C      |
| OU GB 15W-16-8-22 | 16  | 080S | 220E | 4304734622 | 13595     | State      | GW        | P           | C      |
| OU GB 2W-16-8-22  | 16  | 080S | 220E | 4304734657 | 13721     | State      | GW        | P           | C      |
| OU GB 6W-16-8-22  | 16  | 080S | 220E | 4304734658 | 13592     | State      | GW        | P           | C      |
| OU GB 7W-16-8-22  | 16  | 080S | 220E | 4304734659 | 13747     | State      | GW        | DRL         | C      |
| GB 11W-30-8-22    | 30  | 080S | 220E | 4304734392 | 13433     | Fee        | GW        | P           |        |
|                   |     |      |      |            |           |            |           |             |        |
|                   |     |      |      |            |           |            |           |             |        |
|                   |     |      |      |            |           |            |           |             |        |
|                   |     |      |      |            |           |            |           |             |        |
|                   |     |      |      |            |           |            |           |             |        |
|                   |     |      |      |            |           |            |           |             |        |

## OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/2/2003
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/2/2003
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/19/2003
- Is the new operator registered in the State of Utah: YES Business Number: 5292864-0151
- If **NO**, the operator was contacted on: \_\_\_\_\_

6. (R649-9-2) Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 7/21/2003

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 7/21/2003

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

1. Changes entered in the Oil and Gas Database on: 8/27/2003
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 8/27/2003
3. Bond information entered in RBDMS on: n/a
4. Fee wells attached to bond in RBDMS on: n/a

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: 965-003-032

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: 965-002-976

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: 799446

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 965-003-033
2. The **FORMER** operator has requested a release of liability from their bond on: n/a  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**



May 28, 2003

Division of Oil, Gas, & Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

Attention: John Baza/Jim Thompson

Gentlemen:

This will serve as notice that through the internal corporate changes described below, activities formerly conducted in the name of either Shenandoah Operating Company, LLC (SOC) and/or Shenandoah Energy, Inc. (SEI) will hereafter be conducted in the name of QEP Uinta Basin, Inc.: i) the Shenandoah entities were purchased in July, 2001 by Questar Market Resources, Inc., which is a mid-level holding company for the non-utility businesses of Questar Corporation, ii) Shenandoah Operating Company, LLC has now been merged into Shenandoah Energy, Inc. (SEI), iii) Shenandoah Energy, Inc. has now been re-named **QEP Uinta Basin, Inc.** pursuant to a State of Delaware Amended and Restated Certificate of Incorporation, iv) the same employees will continue to be responsible for operations of the former SOC and SEI properties, both in the field and in the office. Accordingly, the change involves only an internal corporate name change and no third party change of operator is involved. Please alter your records to reflect the entity name change. Attached is a spreadsheet listing all wells affected by this change.

Should you have any questions, please call me at 303 - 308-3056.

Yours truly,

Frank Nielsen  
Division Landman

Enclosure

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| well name                 | Sec | T    | R    | api        | Entity | Lease Type |
|---------------------------|-----|------|------|------------|--------|------------|
| UTAH STATE 1              | 36  | 070S | 240E | 4304715128 | 5878   | State      |
| BRENNAN FED 3             | 17  | 070S | 210E | 4304715419 | 10750  | Federal    |
| FEDERAL 2-29-7-22         | 29  | 070S | 220E | 4304715423 | 5266   | Federal    |
| FS PRINCE GOVT 1          | 10  | 070S | 240E | 4304716199 | 7035   | Federal    |
| KAYE STATE 1-16           | 16  | 100S | 230E | 4304730609 | 5395   | State      |
| LEOTA FED 1               | 34  | 070S | 210E | 4304730879 | 5420   | Federal    |
| GULF BRENNAN FED 8        | 17  | 070S | 210E | 4304731509 | 5290   | Federal    |
| RFC 1                     | 20  | 070S | 210E | 4304731805 | 10952  | Federal    |
| EAST COYOTE FED 14-4-8-25 | 04  | 080S | 250E | 4304732493 | 11630  | Federal    |
| F S PRINCE 4              | 03  | 070S | 240E | 4304732677 | 7035   | Federal    |
| GYPSUM HILLS 21           | 21  | 080S | 210E | 4304732692 | 11819  | Federal    |
| TOLL STATION ST 8-36-8-21 | 36  | 080S | 210E | 4304732724 | 12361  | State      |
| SAGE GROUSE FED 6-14-8-22 | 14  | 080S | 220E | 4304732746 | 11944  | Federal    |
| GYPSUM HILLS 22WG         | 22  | 080S | 210E | 4304732818 | 12336  | Federal    |
| GLEN BENCH ST 8A-36-8-21  | 36  | 080S | 210E | 4304733037 | 12377  | State      |
| GLEN BENCH ST 6-36-8-21   | 36  | 080S | 210E | 4304733038 | 12378  | State      |
| SAGE GROUSE 12A-14-8-22   | 14  | 080S | 220E | 4304733177 | 12524  | Federal    |
| OU GB 12W-20-8-22         | 20  | 080S | 220E | 4304733249 | 13488  | Federal    |
| GLEN BENCH ST 2-36-8-21   | 36  | 080S | 210E | 4304733252 | 12527  | State      |
| GBU 15-18-8-22            | 18  | 080S | 220E | 4304733364 | 12690  | Federal    |
| GLEN BENCH FED 3W-17-8-22 | 17  | 080S | 220E | 4304733513 | 12950  | Federal    |
| GLEN BENCH FED 5W-17-8-22 | 17  | 080S | 220E | 4304733514 | 12873  | Federal    |
| WV FED 9W-8-8-22          | 08  | 080S | 220E | 4304733515 | 13395  | Federal    |
| GB FED 9W-18-8-22         | 18  | 080S | 220E | 4304733516 | 12997  | Federal    |
| OU GB 3W-20-8-22          | 20  | 080S | 220E | 4304733526 | 13514  | Federal    |
| GHU 10W-19-8-21           | 19  | 080S | 210E | 4304733528 | 12736  | Federal    |
| GH 1W-32-8-21             | 32  | 080S | 210E | 4304733570 | 12797  | State      |
| GH 3W-32-8-21             | 32  | 080S | 210E | 4304733571 | 12796  | State      |
| GH 5W-32-8-21             | 32  | 080S | 210E | 4304733572 | 12828  | State      |
| GH 7W-32-8-21             | 32  | 080S | 210E | 4304733573 | 12872  | State      |
| GLEN BENCH 12W-30-8-22    | 30  | 080S | 220E | 4304733670 | 13380  | Federal    |
| GH 2W-32-8-21             | 32  | 080S | 210E | 4304733744 | 13029  | State      |
| GH 4W-32-8-21             | 32  | 080S | 210E | 4304733745 | 13035  | State      |
| GH 8W-32-8-21             | 32  | 080S | 210E | 4304733746 | 13030  | State      |
| GB 3W-16-8-22             | 16  | 080S | 220E | 4304733751 | 13577  | State      |
| GB 5W-16-8-22             | 16  | 080S | 220E | 4304733752 | 13570  | State      |
| GH 6W-32-8-21             | 32  | 080S | 210E | 4304733753 | 13036  | State      |
| GB 11W-16-8-22            | 16  | 080S | 220E | 4304733754 | 13582  | State      |
| GH 7W-21-8-21             | 21  | 080S | 210E | 4304733845 | 13050  | Federal    |
| GH 9W-21-8-21             | 21  | 080S | 210E | 4304733846 | 13074  | Federal    |
| GH 11W-21-8-21            | 21  | 080S | 210E | 4304733847 | 13049  | Federal    |
| GH 15W-21-8-21            | 21  | 080S | 210E | 4304733848 | 13051  | Federal    |
| GH 5G-32-8-21             | 32  | 080S | 210E | 4304733866 | 13037  | State      |
| WV 9W-23-8-21             | 23  | 080S | 210E | 4304733909 | 13160  | Federal    |
| GHU 14W-20-8-21           | 20  | 080S | 210E | 4304733915 | 13073  | Federal    |
| GB 1W-36-8-21             | 36  | 080S | 210E | 4304733944 | 13439  | State      |
| GB 4W-30-8-22             | 30  | 080S | 220E | 4304733945 | 13372  | Federal    |
| GB 9W-19-8-22             | 19  | 080S | 220E | 4304733946 | 13393  | Federal    |
| GB 10W-30-8-22            | 30  | 080S | 220E | 4304733947 | 13389  | Federal    |
| GB 12W-19-8-22            | 19  | 080S | 220E | 4304733948 | 13388  | Federal    |
| WV 5W-17-8-21             | 17  | 080S | 210E | 4304733954 | 13332  | Federal    |
| WV 7W-17-8-21             | 17  | 080S | 210E | 4304733956 | 13330  | Federal    |
| GB 9W-25-8-21             | 25  | 080S | 210E | 4304733960 | 13390  | Federal    |
| WV 1W-5-8-22              | 05  | 080S | 220E | 4304733985 | 13369  | Federal    |
| WV 3W-5-8-22              | 05  | 080S | 220E | 4304733987 | 13321  | Federal    |
| WV 7W-5-8-22              | 05  | 080S | 220E | 4304733988 | 13235  | Federal    |
| WV 9W-5-8-22              | 05  | 080S | 220E | 4304733990 | 13238  | Federal    |
| WV 11W-5-8-22             | 05  | 080S | 220E | 4304733992 | 13239  | Federal    |
| WV 13W-5-8-22             | 05  | 080S | 220E | 4304733994 | 13236  | Federal    |
| WV 15W-5-8-22             | 05  | 080S | 220E | 4304733996 | 13240  | Federal    |
| WV 8W-8-8-22              | 08  | 080S | 220E | 4304734005 | 13220  | Federal    |
| WV 14W-8-8-22             | 08  | 080S | 220E | 4304734007 | 13322  | Federal    |
| OU GB 6W-20-8-22          | 20  | 080S | 220E | 4304734018 | 13518  | Federal    |
| GB 5W-30-8-22             | 30  | 080S | 220E | 4304734025 | 13502  | Federal    |
| GB 11W-20-8-22            | 20  | 080S | 220E | 4304734039 | 13413  | Federal    |

| well name                | Sec | T    | R    | api        | Entity | Lease Type |
|--------------------------|-----|------|------|------------|--------|------------|
| OU GB 4W-20-8-22         | 20  | 080S | 220E | 4304734043 | 13520  | Federal    |
| WV 7W-36-7-21            | 36  | 070S | 210E | 4304734065 | 13334  | State      |
| WV 9W-36-7-21            | 36  | 070S | 210E | 4304734066 | 13331  | State      |
| WV 3G-10-8-21            | 10  | 080S | 210E | 4304734106 | 13241  | Federal    |
| WV 15G-3-8-21            | 03  | 080S | 210E | 4304734109 | 13368  | Federal    |
| WV 16G-3-8-21            | 03  | 080S | 210E | 4304734110 | 13295  | Federal    |
| GB 6W-25-8-21            | 25  | 080S | 210E | 4304734121 | 13440  | Fee        |
| GB 7W-25-8-21            | 25  | 080S | 210E | 4304734122 | 13436  | Fee        |
| GH 5W-21-8-21            | 21  | 080S | 210E | 4304734147 | 13387  | Federal    |
| GH 6W-21-8-21            | 21  | 080S | 210E | 4304734148 | 13371  | Federal    |
| GH 8W-21-8-21            | 21  | 080S | 210E | 4304734149 | 13293  | Federal    |
| GH 9W-17-8-21            | 17  | 080S | 210E | 4304734150 | 13392  | Federal    |
| GH 10W-20-8-21           | 20  | 080S | 210E | 4304734151 | 13328  | Federal    |
| GH 10W-21-8-21           | 21  | 080S | 210E | 4304734152 | 13378  | Federal    |
| GH 12W-21-8-21           | 21  | 080S | 210E | 4304734153 | 13294  | Federal    |
| GH 14W-21-8-21           | 21  | 080S | 210E | 4304734154 | 13292  | Federal    |
| GH 16W-17-8-21           | 17  | 080S | 210E | 4304734156 | 13354  | Federal    |
| GH 16W-21-8-21           | 21  | 080S | 210E | 4304734157 | 13329  | Federal    |
| GB 5W-20-8-22            | 20  | 080S | 220E | 4304734209 | 13414  | Federal    |
| WV 6W-22-8-21            | 22  | 080S | 210E | 4304734272 | 13379  | Federal    |
| GH 1W-20-8-21            | 20  | 080S | 210E | 4304734327 | 13451  | Federal    |
| GH 2W-20-8-21            | 20  | 080S | 210E | 4304734328 | 13527  | Federal    |
| GH 3W-20-8-21            | 20  | 080S | 210E | 4304734329 | 13728  | Federal    |
| GH 7W-20-8-21            | 20  | 080S | 210E | 4304734332 | 13537  | Federal    |
| GH 9W-20-8-21            | 20  | 080S | 210E | 4304734333 | 13411  | Federal    |
| GH 11W-20-8-21           | 20  | 080S | 210E | 4304734334 | 13410  | Federal    |
| GH 15W-20-8-21           | 20  | 080S | 210E | 4304734335 | 13407  | Federal    |
| GH 16W-20-8-21           | 20  | 080S | 210E | 4304734336 | 13501  | Federal    |
| WV 12W-23-8-21           | 23  | 080S | 210E | 4304734343 | 13430  | Federal    |
| OU GB 13W-20-8-22        | 20  | 080S | 220E | 4304734348 | 13495  | Federal    |
| OU GB 14W-20-8-22        | 20  | 080S | 220E | 4304734349 | 13507  | Federal    |
| OU GB 11W-29-8-22        | 29  | 080S | 220E | 4304734350 | 13526  | Federal    |
| WV 11G-5-8-22            | 05  | 080S | 220E | 4304734388 | 13422  | Federal    |
| WV 13G-5-8-22            | 05  | 080S | 220E | 4304734389 | 13738  | Federal    |
| WV 15G-5-8-22            | 05  | 080S | 220E | 4304734390 | 13459  | Federal    |
| GB 11W-30-8-22           | 30  | 080S | 220E | 4304734392 | 13433  | Fee        |
| SU BRENNAN W 15W-18-7-22 | 18  | 070S | 220E | 4304734403 | 13442  | Federal    |
| STIRRUP U 16W-5-8-22     | 05  | 080S | 220E | 4304734446 | 13654  | Federal    |
| STIRRUP U 2W-5-8-22      | 05  | 080S | 220E | 4304734455 | 13700  | Federal    |
| WV 10W-5-8-22            | 05  | 080S | 220E | 4304734456 | 13540  | Federal    |
| WV 16W-8-8-22            | 08  | 080S | 220E | 4304734470 | 13508  | Federal    |
| GB 16WX-30-8-22          | 30  | 080S | 220E | 4304734506 | 13431  | Federal    |
| OU GB 1W-19-8-22         | 19  | 080S | 220E | 4304734512 | 13469  | Federal    |
| OU GB 2W-19-8-22         | 19  | 080S | 220E | 4304734513 | 13461  | Federal    |
| OU GB 5W-19-8-22         | 19  | 080S | 220E | 4304734514 | 13460  | Federal    |
| OU GB 7W-19-8-22         | 19  | 080S | 220E | 4304734515 | 13462  | Federal    |
| OU GB 8W-19-8-22         | 19  | 080S | 220E | 4304734516 | 13489  | Federal    |
| OU GB 11W-19-8-22        | 19  | 080S | 220E | 4304734517 | 13467  | Federal    |
| OU GB 16W-19-8-22        | 19  | 080S | 220E | 4304734522 | 13476  | Federal    |
| GB 1W-30-8-22            | 30  | 080S | 220E | 4304734528 | 13487  | Federal    |
| GB 3W-30-8-22            | 30  | 080S | 220E | 4304734529 | 13493  | Federal    |
| GB 6W-30-8-22            | 30  | 080S | 220E | 4304734530 | 13519  | Federal    |
| GB 7W-30-8-22            | 30  | 080S | 220E | 4304734531 | 13494  | Federal    |
| GB 8W-30-8-22            | 30  | 080S | 220E | 4304734532 | 13483  | Federal    |
| GB 9W-30-8-22            | 30  | 080S | 220E | 4304734533 | 13500  | Federal    |
| OU GB 6W-19-8-22         | 19  | 080S | 220E | 4304734534 | 13475  | Federal    |
| OU GB 10W-19-8-22        | 19  | 080S | 220E | 4304734535 | 13479  | Federal    |
| OU GB 13W-19-8-22        | 19  | 080S | 220E | 4304734536 | 13478  | Federal    |
| OU GB 14W-19-8-22        | 19  | 080S | 220E | 4304734537 | 13484  | Federal    |
| OU GB 15W-19-8-22        | 19  | 080S | 220E | 4304734538 | 13482  | Federal    |
| OU GB 12W-17-8-22        | 17  | 080S | 220E | 4304734542 | 13543  | Federal    |
| OU GB 6W-17-8-22         | 17  | 080S | 220E | 4304734543 | 13536  | Federal    |
| OU GB 13W-17-8-22        | 17  | 080S | 220E | 4304734544 | 13547  | Federal    |
| OU GB 6W-29-8-22         | 29  | 080S | 220E | 4304734545 | 13535  | Federal    |
| OU GB 3W-29-8-22         | 29  | 080S | 220E | 4304734546 | 13509  | Federal    |

## SEI (N4235) to QEP (N2460)

| well name          | Sec | T    | R    | api        | Entity | Lease Type |
|--------------------|-----|------|------|------------|--------|------------|
| OU GB 13W-29-8-22  | 29  | 080S | 220E | 4304734547 | 13506  | Federal    |
| OU GB 4W-29-8-22   | 29  | 080S | 220E | 4304734548 | 13534  | Federal    |
| OU GB 5W-29-8-22   | 29  | 080S | 220E | 4304734549 | 13505  | Federal    |
| OU GB 14W-17-8-22  | 17  | 080S | 220E | 4304734550 | 13550  | Federal    |
| OU GB 11W-17-8-22  | 17  | 080S | 220E | 4304734553 | 13671  | Federal    |
| OU GB 14W-29-8-22  | 29  | 080S | 220E | 4304734554 | 13528  | Federal    |
| OU GB 2W-17-8-22   | 17  | 080S | 220E | 4304734559 | 13539  | Federal    |
| OU GB 7W-17-8-22   | 17  | 080S | 220E | 4304734560 | 13599  | Federal    |
| GH EXT 15W-17-8-21 | 17  | 080S | 210E | 4304734562 | 13674  | Federal    |
| OU GB 16W-18-8-22  | 18  | 080S | 220E | 4304734563 | 13559  | Federal    |
| OU GB 1W-29-8-22   | 29  | 080S | 220E | 4304734573 | 13562  | Federal    |
| OU GB 7W-29-8-22   | 29  | 080S | 220E | 4304734574 | 13564  | Federal    |
| OU GB 8W-29-8-22   | 29  | 080S | 220E | 4304734575 | 13609  | Federal    |
| OU GB 9W-29-8-22   | 29  | 080S | 220E | 4304734576 | 13551  | Federal    |
| OU GB 10W-29-8-22  | 29  | 080S | 220E | 4304734577 | 13594  | Federal    |
| OU GB 15W-29-8-22  | 29  | 080S | 220E | 4304734578 | 13569  | Federal    |
| OU GB 4W-16-8-22   | 16  | 080S | 220E | 4304734598 | 13579  | State      |
| OU GB 2W-20-8-22   | 20  | 080S | 220E | 4304734599 | 13664  | Federal    |
| OU GB 2W-29-8-22   | 29  | 080S | 220E | 4304734600 | 13691  | Federal    |
| OU GB 15W-17-8-22  | 17  | 080S | 220E | 4304734601 | 13632  | Federal    |
| OU GB 16W-17-8-22  | 17  | 080S | 220E | 4304734602 | 13639  | Federal    |
| OU GB 16W-29-8-22  | 29  | 080S | 220E | 4304734603 | 13610  | Federal    |
| OU GB 1W-20-8-22   | 20  | 080S | 220E | 4304734604 | 13612  | Federal    |
| OU GB 12W-16-8-22  | 16  | 080S | 220E | 4304734617 | 13697  | State      |
| OU GB 13W-16-8-22  | 16  | 080S | 220E | 4304734618 | 13611  | State      |
| OU GB 15W-16-8-22  | 16  | 080S | 220E | 4304734622 | 13595  | State      |
| OU GB 1W-17-8-22   | 17  | 080S | 220E | 4304734623 | 13701  | Federal    |
| OU GB 9W-17-8-22   | 17  | 080S | 220E | 4304734624 | 13663  | Federal    |
| OU GB 10W-17-8-22  | 17  | 080S | 220E | 4304734625 | 13684  | Federal    |
| OU GB 9W-20-8-22   | 20  | 080S | 220E | 4304734630 | 13637  | Federal    |
| OU GB 10W-20-8-22  | 20  | 080S | 220E | 4304734631 | 13682  | Federal    |
| OU GB 15W-20-8-22  | 20  | 080S | 220E | 4304734632 | 13616  | Federal    |
| OU WIH 13W-21-8-22 | 21  | 080S | 220E | 4304734646 | 13745  | Federal    |
| OU GB 13W-9-8-22   | 09  | 080S | 220E | 4304734654 | 13706  | Federal    |
| OU GB 2W-16-8-22   | 16  | 080S | 220E | 4304734657 | 13721  | State      |
| OU GB 6W-16-8-22   | 16  | 080S | 220E | 4304734658 | 13592  | State      |
| OU GB 7W-16-8-22   | 16  | 080S | 220E | 4304734659 | 13747  | State      |
| OU GB 14W-21-8-22  | 21  | 080S | 220E | 4304734664 | 13720  | Federal    |
| OU GB 12WX-29-8-22 | 29  | 080S | 220E | 4304734668 | 13555  | Federal    |
| OU WIH 10W-21-8-22 | 21  | 080S | 220E | 4304734681 | 13662  | Federal    |
| OU GB 3W-21-8-22   | 21  | 080S | 220E | 4304734686 | 13746  | Federal    |
| OU GB 16SG-30-8-22 | 30  | 080S | 220E | 4304734688 | 13593  | Federal    |
| OU WIH 7W-21-8-22  | 21  | 080S | 220E | 4304734689 | 13716  | Federal    |
| OU GB 5W-21-8-22   | 21  | 080S | 220E | 4304734690 | 13770  | Federal    |
| OU GB 7W-20-8-22   | 20  | 080S | 220E | 4304734705 | 13710  | Federal    |
| OU SG 10W-15-8-22  | 15  | 080S | 220E | 4304734719 | 13725  | Federal    |
| OU SG 9W-10-8-22   | 10  | 080S | 220E | 4304734783 | 13722  | Federal    |



**JUL 07 2003**

3104 (932.34)WF  
Nationwide Bond ESB000024

**NOTICE**

QEP Uinta Basin, Inc.  
1050 17<sup>th</sup> Street Suite 500  
Denver, Colorado 80265

:  
: Oil and Gas  
: lease  
:

**Name Change Recognized**

Acceptable evidence has been filed in this office concerning the name change of Shenandoah Energy Incorporated into QEP Uinta Basin, Incorporated. QEP Uinta Basin, Incorporated is the surviving entity. This name change is recognized effective April 17, 2003.

Eastern States will notify the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice.

If you identify other leases in which the merging entity maintain an interest, please contact this office and we will appropriately document those files with a copy of this notice.

If you have any questions, please contact Bill Forbes at 703-440-1536.

*S/ Wilbert B. Forbes*

Wilbert B. Forbes  
Land Law Examiner  
Branch of Use Authorization  
Division of Resources Planning,  
Use and Protection

bc: JFO,MMS, ES RF, 930 RF, 932.34 RF, E-932: wbf:07 /07/03:440-1536/ QEP Uinta Basin  
MFO



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

In Reply Refer To:  
3106  
(UT-924)

July 21, 2003

### Memorandum

To: Vernal Field Office  
From: **ACTING** Chief, Branch of Minerals Adjudication  
Subject: Name Change Approval

Attached is an approved copy of the name change from BLM-Eastern States, which is recognized by the Utah State Office. We have updated our records to reflect:

The name change from Shenandoah Energy Incorporated into QEP Uinta Basin, Incorporated is effective July 23, 1999. The BLM Bond Number is ESB000024.

*Mary Higgins*  
Mary Higgins  
Acting Chief, Branch of  
Minerals Adjudication

### Enclosure

1. Eastern States Letter
2. List of leases

cc: MMS, James Sykes, PO Box 25165, M/S 357 B1, Denver CO 80225  
State of Utah, DOGM, Earlene Russell (Ste. 1210), Box 145801, SLC UT 84114  
Teresa Thompson (UT-922)  
Joe Incardine (UT-921)

RECEIVED

JUL 29 2003

DIV. OF OIL, GAS & MINING

**Exhibit of Leases**

|               |              |           |           |
|---------------|--------------|-----------|-----------|
| UTSL-065342   | UTU-0825     | UTU-65472 | UTU-74971 |
| UTSL-065429   | UTU-0826     | UTU-65632 | UTU-74972 |
| UTSL-066409-A | UTU-0827     | UTU-67844 | UTU-75079 |
| UTSL-066446   | UTU-0828     | UTU-68217 | UTU-75080 |
| UTSL-066446-A | UTU-0829     | UTU-68218 | UTU-75081 |
| UTSL-066446-B | UTU-0830     | UTU-68219 | UTU-75082 |
| UTSL-066791   | UTU-0933     | UTU-68220 | UTU-75083 |
| UTSL-069330   | UTU-0971     | UTU-68387 | UTU-75084 |
| UTSL-070932-A | UTU-0971-A   | UTU-68620 | UTU-75085 |
| UTSL-071745   | UTU-01089    | UTU-69001 | UTU-75086 |
| UTSL-071963   | UTU-02025    | UTU-70853 | UTU-75087 |
| UTSL-071964   | UTU-02030    | UTU-70854 | UTU-75088 |
| UTSL-071965   | UTU-02060    | UTU-70855 | UTU-75102 |
|               | UTU-02148    | UTU-70856 | UTU-75103 |
| UTU-046       | UTU-02149    | UTU-71416 | UTU-75116 |
| UTU-055       | UTU-02510-A  | UTU-72066 | UTU-75243 |
| UTU-057       | UTU-09613    | UTU-72109 | UTU-75503 |
| UTU-058       | UTU-09617    | UTU-72118 | UTU-75678 |
| UTU-059       | UTU-09809    | UTU-72598 | UTU-75684 |
| UTU-080       | UTU-011225-B | UTU-72634 | UTU-76278 |
| UTU-081       | UTU-011226   | UTU-72649 | UTU-75760 |
| UTU-082       | UTU-011226-B | UTU-73182 | UTU-75939 |
| UTU-093       | UTU-012457   | UTU-73443 | UTU-76039 |
| UTU-0116      | UTU-012457-A | UTU-73456 | UTU-76482 |
| UTU-0558      | UTU-018260-A | UTU-73680 | UTU-76507 |
| UTU-0559      | UTU-022158   | UTU-73681 | UTU-76508 |
| UTU-0560      | UTU-025960   | UTU-73684 | UTU-76721 |
| UTU-0561      | UTU-025962   | UTU-73686 | UTU-76835 |
| UTU-0562      | UTU-025963   | UTU-73687 | UTU-77063 |
| UTU-0566      | UTU-029649   | UTU-73698 | UTU-77301 |
| UTU-0567      | UTU-65471    | UTU-73699 | UTU-77308 |
| UTU-0568      | UTU-65472    | UTU-73700 | UTU-78021 |
| UTU-0569      | UTU-103144   | UTU-73710 | UTU-78028 |
| UTU-0570      | UTU-140740   | UTU-73914 | UTU-78029 |
| UTU-0571      | UTU-14219    | UTU-73917 | UTU-78214 |
| UTU-0572      | UTU-14639    | UTU-74401 | UTU-78215 |
| UTU-0629      | UTU-16551    | UTU-74402 | UTU-78216 |
| UTU-0802      | UTU-28652    | UTU-74407 | UTU-80636 |
| UTU-0803      | UTU-42050    | UTU-74408 | UTU-80637 |
| UTU0804       | UTU-43915    | UTU-74419 | UTU-80638 |
| UTU0805       | UTU-43916    | UTU-74493 | UTU-80639 |
| UTU0806       | UTU-43917    | UTU-74494 | UTU-80640 |
| UTU0807       | UTU-43918    | UTU-74495 |           |
| UTU0809       | UTU-56947    | UTU-74496 |           |
| UTU0810       | UTU-65276    | UTU-74836 |           |
| UTU-0823      | UTU-65404    | UTU-74842 |           |
| UTU-0824      | UTU-65471    | UTU-74968 |           |

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

|                |
|----------------|
| <b>ROUTING</b> |
| 1. DJJ         |
| 2. CDW         |

Change of Operator (Well Sold)

**X - Operator Name Change/Merger**

The operator of the well(s) listed below has changed, effective:

**1/1/2007**

|                                                                                                                                           |                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>FROM:</b> (Old Operator):<br>N2460-QEP Uinta Basin, Inc.<br>1050 17th St, Suite 500<br>Denver, CO 80265<br><br>Phone: 1 (303) 672-6900 | <b>TO:</b> ( New Operator):<br>N5085-Questar E&P Company<br>1050 17th St, Suite 500<br>Denver, CO 80265<br><br>Phone: 1 (303) 672-6900 |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|

**CA No.**

**Unit:**

| WELL NAME          | SEC | TWN | RNG | API NO | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |
|--------------------|-----|-----|-----|--------|-----------|------------|-----------|-------------|
| SEE ATTACHED LISTS |     |     |     | *      |           |            |           |             |

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/19/2007
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/16/2007
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 1/31/2005
- a. Is the new operator registered in the State of Utah: \_\_\_\_\_ Business Number: 764611-0143
- 5a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
- 5b. Inspections of LA PA state/fee well sites complete on: n/a
- 5c. Reports current for Production/Disposition & Sundries on: n/a
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 4/23/2007 BIA
7. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 4/23/2007
8. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: \_\_\_\_\_
9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: \_\_\_\_\_

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 4/30/2007 and 5/15/2007
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 4/30/2007 and 5/15/2007
- Bond information entered in RBDMS on: 4/30/2007 and 5/15/2007
- Fee/State wells attached to bond in RBDMS on: 4/30/2007 and 5/15/2007
- Injection Projects to new operator in RBDMS on: 4/30/2007 and 5/15/2007
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 799446
- 3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965003033
- 3b. The **FORMER** operator has requested a release of liability from their bond on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS: THIS IS A COMPANY NAME CHANGE.**

**SOME WELL NAMES HAVE BEEN CHANGED AS REQUESTED**

| Original Well Name        | Well Name & No.           | Q/Q  | SEC | TWP  | RNG  | API        | Entity | Lease | Well Type | Status |
|---------------------------|---------------------------|------|-----|------|------|------------|--------|-------|-----------|--------|
| GB 6W-25-8-21             | GB 6W-25-8-21             | SENW | 25  | 080S | 210E | 4304734121 | 13440  | fee   | GW        | P      |
| GB 7W-25-8-21             | GB 7W-25-8-21             | SWNE | 25  | 080S | 210E | 4304734122 | 13436  | fee   | GW        | P      |
| GB 11W-30-8-22            | <b>OU GB 11W 30 8 22</b>  | NESW | 30  | 080S | 220E | 4304734392 | 13433  | fee   | GW        | P      |
| UTAH STATE 1              | <b>STATE 1</b>            | NENE | 36  | 070S | 240E | 4304715128 | 5878   | State | GW        | P      |
| KAYE STATE 1-16           | KAYE STATE 1-16           | NWNW | 16  | 100S | 230E | 4304730609 | 5395   | State | GW        | P      |
| TOLL STATION ST 8-36-8-21 | TOLL STATION ST 8-36-8-21 | SENE | 36  | 080S | 210E | 4304732724 | 12361  | State | GW        | S      |
| GLEN BENCH ST 8A-36-8-21  | <b>GB 8A 36 8 21</b>      | SENE | 36  | 080S | 210E | 4304733037 | 12377  | State | GW        | P      |
| GLEN BENCH ST 6-36-8-21   | <b>GB 6 36 8 21</b>       | SENW | 36  | 080S | 210E | 4304733038 | 12378  | State | GW        | P      |
| GLEN BENCH ST 2-36-8-21   | <b>GB 2 36 8 21</b>       | NWNE | 36  | 080S | 210E | 4304733252 | 12527  | State | GW        | P      |
| GH 1W-32-8-21             | GH 1W-32-8-21             | NENE | 32  | 080S | 210E | 4304733570 | 12797  | State | GW        | P      |
| GH 3W-32-8-21             | GH 3W-32-8-21             | NENW | 32  | 080S | 210E | 4304733571 | 12796  | State | GW        | P      |
| GH 5W-32-8-21             | GH 5W-32-8-21             | SWNW | 32  | 080S | 210E | 4304733572 | 12828  | State | GW        | P      |
| GH 7W-32-8-21             | GH 7W-32-8-21             | SWNE | 32  | 080S | 210E | 4304733573 | 12872  | State | GW        | P      |
| GH 2W-32-8-21             | GH 2W-32-8-21             | NWNE | 32  | 080S | 210E | 4304733744 | 13029  | State | GW        | P      |
| GH 4W-32-8-21             | GH 4W-32-8-21             | NWNW | 32  | 080S | 210E | 4304733745 | 13035  | State | GW        | P      |
| GH 8W-32-8-21             | GH 8W-32-8-21             | SENE | 32  | 080S | 210E | 4304733746 | 13030  | State | GW        | P      |
| GB 3W-16-8-22             | <b>OU GB 3W 16 8 22</b>   | NENW | 16  | 080S | 220E | 4304733751 | 13577  | State | GW        | P      |
| GB 5W-16-8-22             | <b>OU GB 5W 16 8 22</b>   | SWNW | 16  | 080S | 220E | 4304733752 | 13570  | State | GW        | P      |
| GH 6W-32-8-21             | GH 6W-32-8-21             | SENW | 32  | 080S | 210E | 4304733753 | 13036  | State | GW        | P      |
| GB 11W-16-8-22            | <b>OU GB 11W 16 8 22</b>  | NESW | 16  | 080S | 220E | 4304733754 | 13582  | State | GW        | P      |
| GH 5G-32-8-21             | GH 5G-32-8-21             | SWNW | 32  | 080S | 210E | 4304733866 | 13037  | State | OW        | P      |
| GB 1W-36-8-21             | GB 1W-36-8-21             | NENE | 36  | 080S | 210E | 4304733944 | 13439  | State | GW        | P      |
| WV 7W-36-7-21             | WV 7W-36-7-21             | SWNE | 36  | 070S | 210E | 4304734065 | 13334  | State | GW        | TA     |
| WV 9W-36-7-21             | WV 9W-36-7-21             | NESE | 36  | 070S | 210E | 4304734066 | 13331  | State | GW        | TA     |
| WV 9W-16-7-21             | WV 9W-16-7-21             | NESE | 16  | 070S | 210E | 4304734324 |        | State | GW        | LA     |
| OU GB 4W-16-8-22          | OU GB 4W-16-8-22          | NWNW | 16  | 080S | 220E | 4304734598 | 13579  | State | GW        | P      |
| OU GB 10W-16-8-22         | OU GB 10W-16-8-22         | NWSE | 16  | 080S | 220E | 4304734616 |        | State | GW        | LA     |
| OU GB 12W-16-8-22         | OU GB 12W-16-8-22         | NWSW | 16  | 080S | 220E | 4304734617 | 13697  | State | GW        | P      |
| OU GB 13W-16-8-22         | OU GB 13W-16-8-22         | SWSW | 16  | 080S | 220E | 4304734618 | 13611  | State | GW        | P      |
| GB 14MU-16-8-22           | GB 14MU-16-8-22           | SESW | 16  | 080S | 220E | 4304734619 | 14196  | State | GW        | P      |
| OU GB 15W-16-8-22         | OU GB 15W-16-8-22         | SWSE | 16  | 080S | 220E | 4304734622 | 13595  | State | GW        | P      |
| OU GB 16W-16-8-22         | OU GB 16W-16-8-22         | SESE | 16  | 080S | 220E | 4304734655 | 13815  | State | GW        | P      |
| OU GB 2W-16-8-22          | OU GB 2W-16-8-22          | NWNE | 16  | 080S | 220E | 4304734657 | 13721  | State | GW        | P      |
| OU GB 6W-16-8-22          | OU GB 6W-16-8-22          | SENW | 16  | 080S | 220E | 4304734658 | 13592  | State | GW        | P      |
| OU GB 8W-16-8-22          | OU GB 8W-16-8-22          | SENE | 16  | 080S | 220E | 4304734660 | 13769  | State | GW        | TA     |
| OU GB 9W-16-8-22          | OU GB 9W-16-8-22          | NESE | 16  | 080S | 220E | 4304734692 |        | State | GW        | LA     |
| OU GB 15G-16-8-22         | OU GB 15G-16-8-22         | SWSE | 16  | 080S | 220E | 4304734829 | 13777  | State | OW        | S      |
| GB 7MU-36-8-21            | GB 7MU-36-8-21            | SWNE | 36  | 080S | 210E | 4304734893 | 14591  | State | GW        | P      |
| GB 3W-36-8-21             | GB 3W-36-8-21             | NENW | 36  | 080S | 210E | 4304734894 | 13791  | State | GW        | P      |
| NC 8M-32-8-22             | NC 8M-32-8-22             | SENE | 32  | 080S | 220E | 4304734897 |        | State | GW        | LA     |
| NC 3M-32-8-22             | NC 3M-32-8-22             | NENW | 32  | 080S | 220E | 4304734899 |        | State | GW        | LA     |

| Original Well Name | Well Name & No.        | Q/Q  | SEC | TWP  | RNG  | API        | Entity | Lease | Well Type | Status |
|--------------------|------------------------|------|-----|------|------|------------|--------|-------|-----------|--------|
| GB 5W-36-8-21      | GB 5W-36-8-21          | SWNW | 36  | 080S | 210E | 4304734925 | 13808  | State | GW        | P      |
| GB 4MU-36-8-21     | GB 4MU-36-8-21         | NWNW | 36  | 080S | 210E | 4304734926 | 14589  | State | GW        | P      |
| NC 11M-32-8-22     | NC 11M-32-8-22         | NESW | 32  | 080S | 220E | 4304735040 |        | State | GW        | LA     |
| GB 5SG-36-8-21     | GB 5SG-36-8-21         | SWNW | 36  | 080S | 210E | 4304735155 | 14015  | State | GW        | P      |
| SC 13ML-16-10-23   | SC 13ML-16-10-23       | SWSW | 16  | 100S | 230E | 4304735281 | 14036  | State | GW        | P      |
| SC 3M-16-10-23     | <b>SC 3ML 16 10 23</b> | NENW | 16  | 100S | 230E | 4304735282 | 14014  | State | GW        | P      |
| SC 11ML-16-10-23   | SC 11ML-16-10-23       | NESW | 16  | 100S | 230E | 4304735311 | 14035  | State | GW        | P      |
| BB E 15G-16-7-21   | <b>BBE 15G 16 7 21</b> | SWSE | 16  | 070S | 210E | 4304735408 | 14070  | State | OW        | P      |
| WH 13G-2-7-24      | WH 13G-2-7-24          | SWSW | 02  | 070S | 240E | 4304735484 | 14176  | State | GW        | TA     |
| FR 9P-36-14-19     | FR 9P-36-14-19         | NWSW | 31  | 140S | 200E | 4304735880 | 14310  | State | GW        | S      |
| CB 13G-36-6-20     | CB 13G-36-6-20         | SWSW | 36  | 060S | 200E | 4304735969 |        | State | OW        | LA     |
| WH 2G-2-7-24       | WH 2G-2-7-24           | NWNE | 02  | 070S | 240E | 4304736259 |        | State | GW        | APD    |
| WH 4G-2-7-24       | WH 4G-2-7-24           | NWNW | 02  | 070S | 240E | 4304736261 |        | State | GW        | APD    |
| FR 1P-36-14-19     | FR 1P-36-14-19         | NWNW | 31  | 140S | 200E | 4304736300 | 14859  | State | GW        | S      |
| WK 3ML-2-9-24      | WK 3ML-2-9-24          | NENW | 02  | 090S | 240E | 4304736723 |        | State | GW        | APD    |
| WK 7ML-2-9-24      | WK 7ML-2-9-24          | SWNE | 02  | 090S | 240E | 4304736724 |        | State | GW        | APD    |
| SC 5ML-16-10-23    | SC 5ML-16-10-23        | SWNW | 16  | 100S | 230E | 4304736877 | 15125  | State | GW        | P      |
| SC 12ML-16-10-23   | SC 12ML-16-10-23       | NWSW | 16  | 100S | 230E | 4304736878 | 15053  | State | GW        | P      |
| SC 14ML-16-10-23   | SC 14ML-16-10-23       | SESW | 16  | 100S | 230E | 4304736908 | 15070  | State | GW        | P      |
| SC 4ML-16-10-23    | SC 4ML-16-10-23        | NWNW | 16  | 100S | 230E | 4304736912 | 15208  | State | GW        | P      |
| FR 3P-36-14-19     | FR 3P-36-14-19         | NWNW | 36  | 140S | 190E | 4304737376 | 15736  | State | GW        | DRL    |
| BBE 9W-16-7-21     | BBE 9W-16-7-21         | NESE | 16  | 070S | 210E | 4304737745 |        | State | GW        | APD    |
| GB 10ML-16-8-22    | GB 10ML-16-8-22        | NWSE | 16  | 080S | 220E | 4304737943 |        | State | GW        | APD    |
| GB 9ML-16-8-22     | GB 9ML-16-8-22         | NESE | 16  | 080S | 220E | 4304737944 | 15851  | State | GW        | DRL    |
| FR 11P-36-14-19    | FR 11P-36-14-19        | NWSW | 36  | 140S | 190E | 4304738349 |        | State | GW        | DRL    |
| GB 4SG-36-8-21     | GB 4SG-36-8-21         | NWNW | 36  | 080S | 210E | 4304738764 |        | State | GW        | APD    |
| GB 7SG-36-8-21     | GB 7SG-36-8-21         | SWNE | 36  | 080S | 210E | 4304738765 |        | State | GW        | APD    |



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

|                                                                                                    |  |                                                         |
|----------------------------------------------------------------------------------------------------|--|---------------------------------------------------------|
| 1. TYPE OF WELL<br>OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____ |  | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br>see attached |
| 2. NAME OF OPERATOR:<br>QUESTAR EXPLORATION AND PRODUCTION COMPANY                                 |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:<br>see attached   |
| 3. ADDRESS OF OPERATOR:<br>1050 17th Street Suite 500 CITY Denver STATE CO ZIP 80265               |  | 7. UNIT or CA AGREEMENT NAME:<br>see attached           |
| PHONE NUMBER:<br>(303) 308-3068                                                                    |  | 8. WELL NAME and NUMBER:<br>see attached                |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE: attached                                               |  | 9. API NUMBER:<br>attached                              |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:                                                       |  | 10. FIELD AND POOL, OR WILDCAT:                         |

COUNTY: Uintah

STATE: UTAH

| 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA                                                |                                                         |                                                           |                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|
| TYPE OF SUBMISSION                                                                                                             | TYPE OF ACTION                                          |                                                           |                                                                 |
| <input checked="" type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br>Approximate date work will start:<br>1/1/2007 | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION          |
| <input type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br>Date of work completion:                          | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL               |
|                                                                                                                                | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARILY ABANDON                    |
|                                                                                                                                | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input type="checkbox"/> OPERATOR CHANGE                  | <input type="checkbox"/> TUBING REPAIR                          |
|                                                                                                                                | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLARE                          |
|                                                                                                                                | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL                         |
|                                                                                                                                | <input type="checkbox"/> CHANGE WELL STATUS             | <input type="checkbox"/> PRODUCTION (START/RESUME)        | <input type="checkbox"/> WATER SHUT-OFF                         |
|                                                                                                                                | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input checked="" type="checkbox"/> OTHER: Operator Name Change |
|                                                                                                                                | <input type="checkbox"/> CONVERT WELL TYPE              | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |                                                                 |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective January 1, 2007 operator of record, QEP Uinta Basin, Inc., will hereafter be known as QUESTAR EXPLORATION AND PRODUCTION COMPANY. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:

Federal Bond Number: 965002976 (BLM Reference No. ESB000024)

Utah State Bond Number: 965003033

Fee Land Bond Number: 965003033

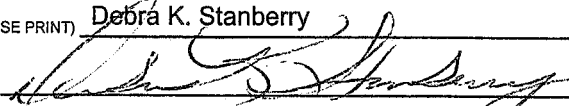
Current operator of record, QEP UINTA BASIN, INC., hereby resigns as operator of the properties as described on the attached list.

Jay B. Neese, Executive Vice President, QEP Uinta Basin, Inc.

Successor operator of record, QUESTAR EXPLORATION AND PRODUCTION COMPANY, hereby assumes all rights, duties and obligations as operator of the properties as described on the attached list

Jay B. Neese, Executive Vice President

Questar Exploration and Production Company

|                                                                                               |                                      |
|-----------------------------------------------------------------------------------------------|--------------------------------------|
| NAME (PLEASE PRINT) Debra K. Stanberry                                                        | TITLE Supervisor, Regulatory Affairs |
| SIGNATURE  | DATE 3/16/2007                       |

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APR 19 2007

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☐ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
QUESTAR EXPLORATION AND PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: 1050 17th Street Suite 500 Denver STATE CO ZIP 80265 PHONE NUMBER: (303) 308-3068

4. LOCATION OF WELL

FOOTAGES AT SURFACE: attached

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:  
see attached

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
see attached

7. UNIT or CA AGREEMENT NAME:  
see attached

8. WELL NAME and NUMBER:  
see attached

9. API NUMBER:  
attached

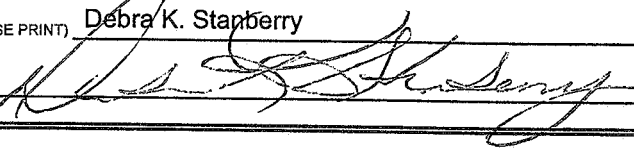
10. FIELD AND POOL, OR WILDCAT:

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                                                                                             | TYPE OF ACTION                                          |                                                           |                                                              |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|
| <input checked="" type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br>Approximate date work will start:<br>1/1/2007 | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION       |
|                                                                                                                                | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL            |
|                                                                                                                                | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARILY ABANDON                 |
|                                                                                                                                | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input type="checkbox"/> OPERATOR CHANGE                  | <input type="checkbox"/> TUBING REPAIR                       |
|                                                                                                                                | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLARE                       |
| <input type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br>Date of work completion:                          | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL                      |
|                                                                                                                                | <input type="checkbox"/> CHANGE WELL STATUS             | <input type="checkbox"/> PRODUCTION (START/RESUME)        | <input type="checkbox"/> WATER SHUT-OFF                      |
|                                                                                                                                | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input checked="" type="checkbox"/> OTHER: Well Name Changes |
|                                                                                                                                | <input type="checkbox"/> CONVERT WELL TYPE              | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |                                                              |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

PER THE ATTACHED LIST OF WELLS, QUESTAR EXPLORATION AND PRODUCTION COMPANY REQUESTS THAT THE INDIVIDUAL WELL NAMES BE UPDATED IN YOUR RECORDS.

NAME (PLEASE PRINT) Debra K. Stanberry TITLE Supervisor, Regulatory Affairs  
SIGNATURE  DATE 4/17/2007

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APR 19 2007

DIV. OF OIL, GAS & MINING

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET** (for state use only)

ROUTING

CDW

Change of Operator (Well Sold)

**X - Operator Name Change**

The operator of the well(s) listed below has changed, effective:

**6/14/2010**

**FROM:** (Old Operator):

N5085-Questar Exploration and Production Company  
 1050 17th St, Suite 500  
 Denver, CO 80265

Phone: 1 (303) 308-3048

**TO:** ( New Operator):

N3700-QEP Energy Company  
 1050 17th St, Suite 500  
 Denver, CO 80265

Phone: 1 (303) 308-3048

**CA No.**

**Unit:**

| WELL NAME    | SEC | TWN | RNG | API NO | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |
|--------------|-----|-----|-----|--------|-----------|------------|-----------|-------------|
| SEE ATTACHED |     |     |     |        |           |            |           |             |
|              |     |     |     |        |           |            |           |             |

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/28/2010
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/28/2010
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/24/2010
- Is the new operator registered in the State of Utah: Business Number: 764611-0143
- (R649-9-2) Waste Management Plan has been received on: Requested
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 8/16/2010 BIA not yet
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 8/16/2010
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/29/2010

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 6/30/2010
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/30/2010
- Bond information entered in RBDMS on: 6/30/2010
- Fee/State wells attached to bond in RBDMS on: 6/30/2010
- Injection Projects to new operator in RBDMS on: 6/30/2010
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 965010693
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965010695
- The **FORMER** operator has requested a release of liability from their bond on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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|                                                                                                   |  |                                                         |
|---------------------------------------------------------------------------------------------------|--|---------------------------------------------------------|
| 1 TYPE OF WELL<br>OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____ |  | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br>See attached |
| 2 NAME OF OPERATOR:<br>Questar Exploration and Production Company <i>N5085</i>                    |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:<br>See attached   |
| 3. ADDRESS OF OPERATOR:<br>1050 17th Street, Suite 500 City: Denver STATE: CO ZIP: 80265          |  | 7. UNIT or CA AGREEMENT NAME:<br>See attached           |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE: See attached                                          |  | 8. WELL NAME and NUMBER:<br>See attached                |
| PHONE NUMBER:<br>(303) 672-6900                                                                   |  | 9. API NUMBER:<br>Attached                              |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:                                                      |  | 10. FIELD AND POOL, OR WILDCAT:<br>See attached         |

COUNTY: Attached

STATE: UTAH

11 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                                                                                                     | TYPE OF ACTION                                          |                                                           |                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br>Approximate date work will start:<br><u>6/14/2010</u> | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION                 |
|                                                                                                                                        | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL                      |
|                                                                                                                                        | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARILY ABANDON                           |
|                                                                                                                                        | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input type="checkbox"/> OPERATOR CHANGE                  | <input type="checkbox"/> TUBING REPAIR                                 |
|                                                                                                                                        | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLARE                                 |
| <input type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br>Date of work completion:                                  | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL                                |
|                                                                                                                                        | <input type="checkbox"/> CHANGE WELL STATUS             | <input type="checkbox"/> PRODUCTION (START/RESUME)        | <input type="checkbox"/> WATER SHUT-OFF                                |
|                                                                                                                                        | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input checked="" type="checkbox"/> OTHER: <u>Operator Name Change</u> |
|                                                                                                                                        | <input type="checkbox"/> CONVERT WELL TYPE              | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |                                                                        |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 14, 2010 Questar Exploration and Production Company changed its name to QEP Energy Company. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:

Federal Bond Number: 965002976 (BLM Reference No. ESB000024) *N3700*

Utah State Bond Number: ~~965003033~~

Fee Land Bond Number: ~~965003033~~ *965010695*

BIA Bond Number: ~~799446~~ *965010693*

The attached document is an all inclusive list of the wells operated by Questar Exploration and Production Company. As of June 14, 2010 QEP Energy Company assumes all rights, duties and obligations as operator of the properties as described on the list

|                                            |                                         |
|--------------------------------------------|-----------------------------------------|
| NAME (PLEASE PRINT) <u>Morgan Anderson</u> | TITLE <u>Regulatory Affairs Analyst</u> |
| SIGNATURE <i>Morgan Anderson</i>           | DATE <u>6/23/2010</u>                   |

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**RECEIVED**

**JUN 28 2010**

DIV. OF OIL, GAS & MINING

(See Instructions on Reverse Side)

**APPROVED** *6/30/2009*

*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

Questar Exploration Production Company (N5085) to QEP Energy Company (N3700)  
effective June 14, 2010

| well_name                 | sec | tpw  | rng  | api        | entity | mineral<br>lease | type | stat | C |
|---------------------------|-----|------|------|------------|--------|------------------|------|------|---|
| Wr 16G-32-10-17           | 32  | 100S | 170E | 4301350370 |        | State            | OW   | NEW  | C |
| STATE 1                   | 36  | 070S | 240E | 4304715128 | 5878   | State            | GW   | P    |   |
| KAYE STATE 1-16           | 16  | 100S | 230E | 4304730609 | 5395   | State            | GW   | P    |   |
| TOLL STATION ST 8-36-8-21 | 36  | 080S | 210E | 4304732724 | 12361  | State            | GW   | S    |   |
| GB 8A-36-8-21             | 36  | 080S | 210E | 4304733037 | 12377  | State            | GW   | P    |   |
| GB 6-36-8-21              | 36  | 080S | 210E | 4304733038 | 12378  | State            | GW   | P    |   |
| GB 2-36-8-21              | 36  | 080S | 210E | 4304733252 | 12527  | State            | GW   | P    |   |
| GH 1W-32-8-21             | 32  | 080S | 210E | 4304733570 | 12797  | State            | GW   | P    |   |
| GH 3W-32-8-21             | 32  | 080S | 210E | 4304733571 | 12796  | State            | GW   | P    |   |
| GH 5W-32-8-21             | 32  | 080S | 210E | 4304733572 | 12828  | State            | GW   | P    |   |
| GH 7W-32-8-21             | 32  | 080S | 210E | 4304733573 | 12872  | State            | GW   | P    |   |
| GH 2W-32-8-21             | 32  | 080S | 210E | 4304733744 | 13029  | State            | GW   | P    |   |
| GH 4W-32-8-21             | 32  | 080S | 210E | 4304733745 | 13035  | State            | GW   | P    |   |
| GH 8W-32-8-21             | 32  | 080S | 210E | 4304733746 | 13030  | State            | GW   | P    |   |
| OU GB 3W-16-8-22          | 16  | 080S | 220E | 4304733751 | 13577  | State            | GW   | P    |   |
| OU GB 5W-16-8-22          | 16  | 080S | 220E | 4304733752 | 13570  | State            | GW   | P    |   |
| GH 6W-32-8-21             | 32  | 080S | 210E | 4304733753 | 13036  | State            | GW   | P    |   |
| OU GB 11W-16-8-22         | 16  | 080S | 220E | 4304733754 | 13582  | State            | GW   | P    |   |
| GH 5G-32-8-21             | 32  | 080S | 210E | 4304733866 | 13037  | State            | OW   | P    |   |
| GB 1W-36-8-21             | 36  | 080S | 210E | 4304733944 | 13439  | State            | GW   | P    |   |
| WV 2W-2-8-21              | 02  | 080S | 210E | 4304734034 | 13678  | State            | GW   | P    |   |
| GB 6W-25-8-21             | 25  | 080S | 210E | 4304734121 | 13440  | Fee              | GW   | P    |   |
| GB 7W-25-8-21             | 25  | 080S | 210E | 4304734122 | 13436  | Fee              | GW   | P    |   |
| WV 9W-16-7-21             | 16  | 070S | 210E | 4304734324 |        | State            | GW   | LA   |   |
| OU GB 11W-30-8-22         | 30  | 080S | 220E | 4304734392 | 13433  | Fee              | GW   | P    |   |
| OU GB 4W-16-8-22          | 16  | 080S | 220E | 4304734598 | 13579  | State            | GW   | P    |   |
| OU GB 10W-16-8-22         | 16  | 080S | 220E | 4304734616 |        | State            | GW   | LA   |   |
| OU GB 12W-16-8-22         | 16  | 080S | 220E | 4304734617 | 13697  | State            | GW   | P    |   |
| OU GB 13W-16-8-22         | 16  | 080S | 220E | 4304734618 | 13611  | State            | GW   | P    |   |
| GB 14MU-16-8-22           | 16  | 080S | 220E | 4304734619 | 14196  | State            | GW   | P    |   |
| OU GB 15W-16-8-22         | 16  | 080S | 220E | 4304734622 | 13595  | State            | GW   | P    |   |
| OU GB 16W-16-8-22         | 16  | 080S | 220E | 4304734655 | 13815  | State            | GW   | P    |   |
| OU GB 2W-16-8-22          | 16  | 080S | 220E | 4304734657 | 13721  | State            | GW   | P    |   |
| OU GB 6W-16-8-22          | 16  | 080S | 220E | 4304734658 | 13592  | State            | GW   | P    |   |
| OU GB 8W-16-8-22          | 16  | 080S | 220E | 4304734660 | 13769  | State            | GW   | TA   |   |
| OU GB 9W-16-8-22          | 16  | 080S | 220E | 4304734692 |        | State            | GW   | LA   |   |
| OU GB 15G-16-8-22         | 16  | 080S | 220E | 4304734829 | 13777  | State            | OW   | S    |   |
| GB 7MU-36-8-21            | 36  | 080S | 210E | 4304734893 | 14591  | State            | GW   | P    |   |
| GB 3W-36-8-21             | 36  | 080S | 210E | 4304734894 | 13791  | State            | GW   | P    |   |
| NC 8M-32-8-22             | 32  | 080S | 220E | 4304734897 |        | State            | GW   | LA   |   |
| NC 3M-32-8-22             | 32  | 080S | 220E | 4304734899 |        | State            | GW   | LA   |   |
| GB 5W-36-8-21             | 36  | 080S | 210E | 4304734925 | 13808  | State            | GW   | P    |   |
| GB 4MU-36-8-21            | 36  | 080S | 210E | 4304734926 | 14589  | State            | GW   | P    |   |
| NC 11M-32-8-22            | 32  | 080S | 220E | 4304735040 |        | State            | GW   | LA   |   |
| GB 5SG-36-8-21            | 36  | 080S | 210E | 4304735155 | 14015  | State            | GW   | P    |   |
| SC 13ML-16-10-23          | 16  | 100S | 230E | 4304735281 | 14036  | State            | GW   | P    |   |
| SC 3ML-16-10-23           | 16  | 100S | 230E | 4304735282 | 14014  | State            | GW   | P    |   |
| SC 11ML-16-10-23          | 16  | 100S | 230E | 4304735311 | 14035  | State            | GW   | P    |   |
| WH 13G-2-7-24             | 02  | 070S | 240E | 4304735484 | 14176  | State            | D    | PA   |   |
| FR 9P-36-14-19            | 31  | 140S | 200E | 4304735880 | 14310  | State            | GW   | P    |   |
| CB 13G-36-6-20            | 36  | 060S | 200E | 4304735969 |        | State            | OW   | LA   |   |

Bonds: BLM = ESB000024

BIA = 956010693

State = 965010695

Questar Exploration Production Company (N5085) to QEP Energy Company (N3700)  
effective June 14, 2010

| well_name        | sec | tpw  | rng  | api        | entity | mineral<br>lease | type | stat | C |
|------------------|-----|------|------|------------|--------|------------------|------|------|---|
| WH 2G-2-7-24     | 02  | 070S | 240E | 4304736259 |        | State            | GW   | LA   |   |
| WH 4G-2-7-24     | 02  | 070S | 240E | 4304736261 |        | State            | GW   | LA   |   |
| FR 1P-36-14-19   | 31  | 140S | 200E | 4304736300 | 14859  | State            | GW   | P    |   |
| WK 3ML-2-9-24    | 02  | 090S | 240E | 4304736723 |        | State            | GW   | LA   |   |
| WK 7ML-2-9-24    | 02  | 090S | 240E | 4304736724 |        | State            | GW   | LA   |   |
| SC 5ML-16-10-23  | 16  | 100S | 230E | 4304736877 | 15125  | State            | GW   | P    |   |
| SC 12ML-16-10-23 | 16  | 100S | 230E | 4304736878 | 15053  | State            | GW   | P    |   |
| SC 14ML-16-10-23 | 16  | 100S | 230E | 4304736908 | 15070  | State            | GW   | P    |   |
| SC 4ML-16-10-23  | 16  | 100S | 230E | 4304736912 | 15208  | State            | GW   | P    |   |
| FR 3P-36-14-19   | 36  | 140S | 190E | 4304737376 | 15736  | State            | GW   | P    |   |
| BZ 12ML-16-8-24  | 16  | 080S | 240E | 4304737670 |        | State            | GW   | LA   |   |
| BZ 10D-16-8-24   | 16  | 080S | 240E | 4304737671 | 15979  | State            | GW   | S    |   |
| BZ 14ML-16-8-24  | 16  | 080S | 240E | 4304737672 |        | State            | GW   | LA   |   |
| BBE 9W-16-7-21   | 16  | 070S | 210E | 4304737745 |        | State            | GW   | LA   |   |
| GB 10ML-16-8-22  | 16  | 080S | 220E | 4304737943 |        | State            | GW   | LA   |   |
| GB 9ML-16-8-22   | 16  | 080S | 220E | 4304737944 | 15851  | State            | GW   | P    |   |
| HR 2MU-2-12-23   | 02  | 120S | 230E | 4304738052 |        | State            | GW   | LA   |   |
| HR 3MU-2-12-23   | 02  | 120S | 230E | 4304738053 |        | State            | GW   | LA   |   |
| HR 6MU-2-12-23   | 02  | 120S | 230E | 4304738054 |        | State            | GW   | LA   |   |
| HR 10MU-2-12-23  | 02  | 120S | 230E | 4304738055 | 15737  | State            | GW   | S    |   |
| HR 12MU-2-12-23  | 02  | 120S | 230E | 4304738056 |        | State            | GW   | LA   |   |
| HR 14MU-2-12-23  | 02  | 120S | 230E | 4304738057 |        | State            | GW   | LA   |   |
| HR 16MU-2-12-23  | 02  | 120S | 230E | 4304738058 |        | State            | GW   | LA   |   |
| FR 11P-36-14-19  | 36  | 140S | 190E | 4304738349 | 15899  | State            | GW   | P    |   |
| GB 4SG-36-8-21   | 36  | 080S | 210E | 4304738764 | 16142  | State            | GW   | P    |   |
| GB 7SG-36-8-21   | 36  | 080S | 210E | 4304738765 | 16144  | State            | GW   | P    |   |
| WF 3D-32-15-19   | 32  | 150S | 190E | 4304738877 |        | State            | GW   | APD  | C |
| SCS 5C-32-14-19  | 32  | 140S | 190E | 4304738963 | 16759  | State            | GW   | P    |   |
| FR 7P-36-14-19   | 31  | 140S | 200E | 4304738992 | 15955  | State            | GW   | P    |   |
| SCS 10C-16-15-19 | 16  | 150S | 190E | 4304739683 | 16633  | State            | GW   | P    |   |
| FR 6P-16-14-19   | 16  | 140S | 190E | 4304740350 |        | State            | GW   | APD  | C |

Bonds: BLM = ESB000024

BIA = 956010693

State = 965010695